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ABSTRACT

Detailed statistical tables on federal funds for research and development (R&D) are provided in this document. Tables are organized into the following sections: research, development, and R&D plant; R&D--agency, character of work, and performer; total research--agency, performer, and field of science; basic research--agency, performer, and field of science, applied research--agency, performer, and field of science; development--agency and performer; R&D plant; total, basic, and applied research performed at colleges and universities--agency and field of science; foreign performers in R&D; foreign performers--basic research; special foreign currency program; geographic distribution--R&D and R&D plant; federal intramural personnel costs; and historical data (outlays and obligations). In the tables, data for 1982 are considered to be actual since they represent virtually completed transactions. Data for 1983 and 1984 are estimated since they do not represent final actions. The timing of the Federal Funds Survey coincided with the third quarter FY 1983; therefore, the amounts reported for 1983 reflect congressional appropriation and reprogramming decisions as of that time. Data for 1984 represent administration budget proposals that had not been acted on. (JN)

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NOTE: For trend comparisons, use only the historical data for fiscal years 1974-84 contained in tables C-113 through C-133 in this *Federal Funds, Volume XXXII* series. Do not use data published earlier. These tables incorporate changes made by the agencies in prior-year data to reflect program reclassifications. *Federal Funds for Research and Development, Detailed Historical Tables: Fiscal Years 1967-84* an unpublished, computer-run series, are also available gratis on request from the NSF Division of Science Resources Studies.

general notes

The tables in this publication have been derived from the *Federal Funds for Research and Development*, Volume XXXII survey. This survey covered a later and more detailed classification of research and development (R&D) programs in the 1984 Federal budget than the data that appeared in "Special Analysis K: Research and Development," issued in January 1983 as one of the documents of the *Budget of the United States Government, Fiscal Year 1984*. The data in these *Detailed Statistical Tables* show R&D funding levels as reported by 93 Federal agencies in March through August 1983. All agencies with R&D programs were covered.

R&D totals in these tables are given in both outlays and obligations. The R&D obligation data are further distributed by character of work, performer, field of science (for research but not development), and Federal R&D support by State. Obligations for research performance at universities and colleges by fields of science are also shown as are R&D plant data.

The amounts reported for each year of this survey include the obligations or outlays occurred in that year, regardless of the time the funds may have been authorized, appropriated, or received by an agency, and regardless of whether the funds are identified in an agency's budget specifically for research, development, or R&D plant.

In the tables, data for 1982 are considered to be actual since they represent

virtually completed transactions. Data for 1983 and 1984 are estimated since they do not represent final actions. The timing of the *Federal Funds* survey coincided with the third quarter of fiscal year 1983; therefore, the amounts reported for 1983 reflect congressional appropriation actions as of that period, as well as apportionment and reprogramming decisions as of that time. Data for 1984 represent administration budget proposals that had not been acted on. The effects of later authorization, appropriation, deferral, and apportionment actions will be reflected in later surveys of this series.

In classifying the data, the agencies must rely on judgment to some extent. Most R&D programs are not shown as budget line items and have to be identified by respondents within larger programs. Judgment is often involved also in determining which funding areas constitute basic research, applied research, development, and specific fields of science.

R&D plant data are understated because of the difficulty encountered by some agencies in identifying R&D plant within contracts for research and development. The Department of Defense can identify only limited portions of R&D plant in contracts funded from the research, development, test, and evaluation (RDT&E) appropriation. The National Aeronautics and Space Administration faces a similar problem in reporting R&D plant data.

Despite the fact that the differences between the *Federal Funds* requirements and the internal reporting systems of many agencies may call for judgment, the reporting experience of most agencies and their interaction over the years with the National Science Foundation staff have considerably increased the reliability of the data.

Sometimes agencies revise their reporting concepts, making revisions in the current data that are important enough to warrant revisions of prior-year data. Some prior-year changes occur almost every year. Therefore, only the historical data contained in appendix C (tables C-113 through C-133) should be used instead of data in previously published appendix tables in the *Federal Funds* series.

The final report, *Federal Funds for Research and Development*, Volume XXXII, will be published separately and will contain an analysis of the R&D portion of the 1984 Federal budget. A section of the report will cover an R&D analysis by budget function and will provide a number of text tables and charts, but will not include the detailed statistical tables contained in this volume.

Inquiries relating to *Federal Funds*, Volume XXXII should be directed to the National Science Foundation, Division of Science Resources Studies, Washington, D.C. 20550. Telephone: (202) 634-4636.

technical notes

scope and method

During the period March through August 1983 a total of 33 Federal agencies and their subdivisions—93 individual respondents—submitted data in response to the Annual Survey of Federal Funds for Research and Development, Volume XXXII, conducted by the National Science Foundation (NSF) and distributed in February and March 1983. In nearly all cases the data received from the agencies were in terms of obligations and outlays incurred, or expected to be incurred, regardless of when the funds were appropriated or whether they were identified in the respondents' budgets specifically for research and development (R&D) activities. The exception was the National Aeronautics and Space Administration (NASA), for which the same kinds of transactions were reported in terms of budget plan, which approximates obligations.

Federal agencies provided R&D data earlier to the Office of Management and Budget (OMB) for inclusion in "Special Analysis K: Research and Development" in *The Budget of the United States Government, Fiscal Year 1984*, which was one of the budget documents presented to the Congress in January 1983. The R&D data in the agency submissions to OMB and to the *Federal Funds* survey were based on the same definitions and are reconcilable, but the data in the *Federal Funds* survey cover smaller R&D support agencies not covered by "Special Analysis K" and are classified in more detailed categories.

definitions

The definitions are essentially unchanged from prior *Federal Funds* surveys.

1. research, development, and r&d plant

This heading includes all direct, indirect, incidental, or related costs resulting from or necessary to research, development, and R&D plant, regardless of whether the research and development are performed by a Federal agency (intramurally) or performed by private individuals and organizations under grant or contract (extramurally). Research and development exclude routine product testing, quality control, mapping and surveys, collection of general-purpose statistics, experimental production, and the training of scientific personnel.

a. **Research** is systematic study directed toward fuller scientific knowledge or understanding of the subject studied. Research is classified as either basic or applied according to the objectives of the sponsoring agency.

In **basic research** the objective of the sponsoring agency is to gain fuller knowledge or understanding of the fundamental aspects of phenomena and of observable facts without specific applications toward processes or products in mind.

In **applied research** the objective of the sponsoring agency is to gain knowledge or understanding necessary for determining the means by which a recognized and specific need may be met.

b. **Development** is systematic use of the knowledge or understanding gained from research, directed toward the production of useful materials, devices, systems, or methods, including design and development of prototypes and processes. It excludes quality control, routine product testing, and production.

c. **R&D plant** (R&D facilities and fixed equipment, such as reactors, wind tunnels, and radio telescopes) includes acquisition of, construction of, major repairs to, or alterations in structures, works, equipment, facilities, or land, for use in R&D activities at Federal or non-Federal installations. Excluded from the R&D plant category are expendable equipment and office furniture and equipment. Obligations for foreign R&D plant are limited to Federal funds for facilities located abroad and used in support of foreign research and development.

2. obligations and outlays

a. **Obligations** represent the amounts for orders placed, contracts awarded, services received, and similar transactions during a given period, regardless of when the funds were appropriated and when future payment of money is required.

b. **Outlays** represent the amounts for checks issued and cash payments made during a given period, regardless of when the funds were appropriated.

The obligations and outlays reported cover all transactions from all funds available to an agency from direct appropriations, trust funds, or special account receipts, corporate income, or other sources, including funds appropriated by the President, that the agency has received or expects to receive. The amounts reported for each year reflect obligations and outlays for that year, regardless of when the funds were originally authorized or received and regardless of whether they were appropriated, received, or identified in the agency's budget specifically for research, development, or R&D plant.

An agency making a transfer of funds to another agency includes such transfers in its report of obligations and outlays. The receiving agency does not report, for purposes of this survey, funds transferred to it from another agency. Similarly, a subdivision of an agency that transfers funds to another subdivision within that agency reports such obligations or outlays as its own.

Obligations and outlays for work performed in foreign countries include funds directly available to Federal agencies and special foreign currencies separately appropriated. The latter currencies are derived largely from provisions of Public Law 480, 1954, as amended.

3. cost coverage

Funds reported for research and development reflect full costs. In addition to costs of specific R&D projects, the applicable overhead costs are also included. The amounts reported include the costs of planning and administering R&D programs, laboratory overhead, pay of military personnel, and departmental administration.

4. fiscal year

The fiscal year in the Federal Government accounting period begins October 1 of a given year and ends September 30 of the following year; thus, fiscal year 1982 began on October 1, 1981, and ended September 30, 1982.

5. agency

An agency is an organization of the Federal Government whose principal executive officer reports to the President. The only exception is the Library of Congress, also included in the survey, whose executive officer reports to the Congress. The term subdivision refers to any major organizational unit of a reporting agency, such as a bureau, administration, office, or service.

6. performers

Performers are either intramural organizations accomplishing operating functions or extramural organizations or persons receiving support or providing services under a contract or grant.

a. **Intramural performers:** Agencies of the Federal Government. Their work is carried on directly by their own personnel. Obligations reported under this category are for activities performed directly by a reporting agency, or they represent funds that the agency transfers to another Federal agency for performance of work. The ultimate performer must be a Federal agency. If the ultimate performer is *not* a Federal agency, the funds so transferred are reported by the transferring agency under the appropriate extramural performer category (industrial firms, universities and colleges, other nonprofit institutions, etc.). Intramural performance includes the costs of supplies and equipment, essentially of an "off-the-shelf" nature, that are procured for use in intramural research and development. The cost of Federal personnel engaged in planning and administering intramural and extramural R&D programs are also included as part of the intramural performance total.

b. **Extramural performers:** All organizations outside the Federal sector that perform with Federal funds under contract or grant. Only those costs associated with actual extramural R&D performance are reported, but these would include costs of materials and supplies to carry out R&D activities. Costs of "off-the-shelf" supplies and equipment procured from extramural suppliers and required to support intramural research and development are considered as part of the costs of intramural

performance and not as part of the costs of extramural performance. Extramural performers are identified as follows:

i. **Industrial firms:** Those organizations that may legally distribute net earnings to individuals or to other organizations.

ii. **Universities and colleges:** Institutions engaged primarily in providing resident and/or accredited instruction for at least a 2-year program above the secondary school level. Included are colleges of liberal arts; schools of arts and sciences; professional schools, as in engineering and medicine, including affiliated hospitals; associated research institutes; and agricultural experiment stations.

iii. **Other nonprofit institutions:** Private organizations, other than educational institutions, no part of whose net earnings inure to the benefit of a private stockholder or individual, and other private organizations organized for the exclusive purpose of turning over their entire net earnings to such nonprofit institutions.

iv. **Federally funded research and development centers (FFRDC's):** R&D-performing organizations exclusively or substantially financed by the Federal Government that are supported by the Federal Government either to meet a particular R&D objective or, in some instances, to provide major facilities at universities for research and associated training purposes. Each center is administered either by an industrial firm, a university, or another nonprofit institution.

In general, all of the following criteria are met by an organization before it is included in the FFRDC category: (1) Its primary activities include one or more of the following: Basic research, applied research, development, or management of research and development (specifically excluded are organizations engaged primarily in routine quality control and testing, routine service activities, production, mapping and surveys, and information dissemination); (2) it is a separate operational unit within the parent organization or is organized as a separately incorporated organization; (3) it performs actual research and development or R&D management either upon direct request of the Federal Government or under a broad charter from the Federal Government, but in either case

under the direct monitorship of the Federal Government; (4) it receives its major financial support (70 percent or more) from the Federal Government, usually from one agency; (5) it has, or is expected to have, a long-term relationship with its sponsoring agency (about five years or more), as evidenced by specific obligations assumed by it and the agency; (6) most or all of its facilities are owned by, or are funded under contract with, the Federal Government; and (7) it has an average annual budget (operating and capital equipment) of at least \$500,000.

FFRDC's are grouped into four categories, research laboratories, R&D laboratories, study and analysis centers, and system engineering/system integration centers, according to their primary activity to reflect the differences in the nature and activities of the centers.¹

Research laboratories are principally used for the pursuit of research (as distinguished from development). Most concentrate on basic research in one particular area and many provide major, unique, research facilities for national use.

R&D laboratories engage in various facets of the R&D process. Most are multi-program laboratories active in a variety of science and/or engineering areas, though some specialize in a broad functional area such as national security or nuclear energy. Most of these institutions contain major national research and/or testing facilities.

Study and analysis centers are involved exclusively in analytical activities; no hardware-related laboratory research or development is carried out.

System engineering/system integration centers primarily provide systems engineering, R&D system integration, and management support for definition and development of large technical systems.

v. State and local governments: State and local government agencies, excluding State and local universities and colleges, agricultural experiment stations, medical schools, and affiliated hospitals. (Federal R&D funds obligated directly to such State and local educational institutions are included under the universities-and-colleges category in this survey.) Research and

development under the State-and-local-government category are performed either directly by State or local agencies or by other organizations under grant or contract from such agencies. Regardless of the ultimate performer, Federal R&D funds directed to State and local governments are reported under the State-and-local-government category, and no other.

vi. Foreign performers: Foreign citizens, organizations, or governments, as well as international organizations, such as NATO, UNESCO, and WHO, performing work abroad financed by the Federal Government. Excluded are payments to U.S. agencies, organizations, or citizens performing research and development abroad for the Federal Government; the survey does not seek information on "offshore" payments. Also excluded are payments to foreign scientists performing in the United States.

vii. Private individuals: Individuals receiving a Federal R&D grant or contract award directly; in this case obligations are reported under "industrial firms."

7. fields of science

The fields of science in this survey are divided into eight broad field categories, each of them consisting of a number of detailed fields. The broad fields are life sciences, psychology, physical sciences, environmental sciences, mathematics and computer sciences, engineering, social sciences, and other sciences not elsewhere classified. The following listing presents the fields grouped under each of the broad fields, together with illustrative disciplines.

a. Life sciences consist of five detailed fields: biological (excluding environmental), environmental biology, agricultural, medical, and life sciences not elsewhere classified. The illustrative disciplines provided below under each of these detailed fields are not intended to be sharp definitions; they represent examples of disciplines generally classified under a given detailed field. A discipline, however, may be classified under another detailed field when the major emphasis is elsewhere. Research in biochemistry could be reported as biological, agricultural, or medical,

depending on the orientation of the project. Human biochemistry would be classified under biological, but animal biochemistry or plant biochemistry would be under agricultural. Examples of disciplines under each of the detailed fields are as follows:

Biological (excluding environmental): anatomy; biochemistry; biology; biometry and biostatistics; biophysics; botany; cell biology; entomology and parasitology; genetics; microbiology; neuroscience (biological); nutrition; physiology; zoology; other biological, n.e.c.²

Environmental biology: ecosystem sciences; evolutionary biology; limnology; physiological; ecology; population biology; population and biotic community ecology; systematics; other environmental biology, n.e.c.²

Agricultural: agronomy; animal sciences; food science and technology; fish and wildlife; forestry; horticulture; plant sciences; soils and soil science; phytopathology; phytoproduction; agriculture, general; other agriculture, n.e.c.²

Medical: internal medicine; neurology; obstetrics and gynecology; ophthalmology; otolaryngology; pediatrics; preventive medicine; pathology; pharmacology; psychiatry; radiology; surgery; dentistry; pharmacy; veterinary medicine; other medical, n.e.c.²

Life sciences, n.e.c.²

b. Psychology deals with behavior, mental processes, and individual and group characteristics and abilities. Psychology is divided into three categories: biological aspects, social aspects, and psychological sciences not elsewhere classified. Examples of disciplines under each of these fields are as follows:

Biological aspects: experimental psychology; animal behavior; clinical psychology; comparative psychology; ethology.

Social aspects: social psychology; educational, personnel, vocational psychology, and testing; industrial and engineering psychology; development and personality.

¹The categories were established in December 1982 by a Task Force of representatives of agencies responsible for FFRDC's at the request of the Office of Science and Technology Policy.

²Not elsewhere classified. Includes multidisciplinary projects within a broad field and single-discipline projects for which a separate field has not been assigned.

Psychological sciences, n.e.c.²

c. **Physical sciences** are concerned with understanding of the material universe and its phenomena. They comprise the fields of astronomy, chemistry, physics, and physical sciences not elsewhere classified. Examples of disciplines under each of these fields are as follows:

Astronomy: laboratory astrophysics; optical astronomy; radio astronomy; theoretical astrophysics; Gamma-ray, neutrino astronomy.

Chemistry: inorganic; organo-metallic; organic; physical.

Physics: acoustics; atomic and molecular; condensed matter; elementary particle; nuclear structure; optics; plasma.

Physical sciences, n.e.c.²

d. **Environmental sciences** (terrestrial and extraterrestrial) are concerned (with one exception) with the gross nonbiological properties of the areas of the solar system that directly or indirectly affect man's survival and welfare; they comprise the fields of atmospheric sciences, geological sciences, oceanography, and environmental sciences not elsewhere classified. The one exception is that obligations for studies pertaining to life in the sea, or other bodies of water, are reported as support of oceanography and not biology. Examples of disciplines under each of these fields are as follows:

Atmospherics sciences: aeronomy; solar; weather modification; extraterrestrial atmospheres; meteorology.

Geological sciences: engineering geophysics; general geology; geodesy and gravity; geomagnetism; hydrology; inorganic geochemistry; isotopic geochemistry; organic geochemistry; laboratory geophysics; paleomagnetism; paleontology; physical geography and cartography; seismology; soil sciences.

Oceanography: biological oceanography; chemical oceanography; physical oceanography; marine geophysics.

Environmental sciences, n.e.c.²

e. **Mathematics and computer sciences** employ logical reasoning with the aid of symbols and are concerned with the development of methods of operation employing such symbols, and in the case of

computer sciences, with the application of such methods to automated information systems. Examples of disciplines under each of these fields are as follows:

Mathematics: algebra; analysis; applied mathematics; foundations and logic; geometry; numerical analysis; statistics; topology.

Computer sciences: programming languages; computer and information sciences (general); design, development, and application of computer capabilities to data storage and manipulation; information sciences and systems; systems analysis.

Mathematics and computer sciences, n.e.c.²

f. **Engineering** is concerned with studies directed toward developing engineering principles or toward making specific scientific principles usable in engineering practice. Engineering is divided into eight fields: aeronautical, astronautical, chemical, civil, electrical, mechanical, metallurgy and materials, and engineering not elsewhere classified. Examples of disciplines under each of these fields are as follows:

Aeronautical: aerodynamics.

Astronautical: aerospace; space technology.

Chemical: petroleum; petroleum refining; process.

Civil: architectural; hydraulic, hydrologic; marine; sanitary and environmental; structural; transportation.

Electrical: communication; electronic; power.

Mechanical: engineering mechanics.

Metallurgy and materials: ceramic; mining; textile; welding.

Engineering, n.e.c.² agricultural; industrial and management; nuclear; ocean engineering systems.

g. **Social sciences** are directed toward an understanding of the behavior of social institutions and groups and of individuals as members of a group. These sciences include anthropology, economics, political science, sociology, and social sciences not elsewhere classified. Examples of disciplines under each of these fields are as follows:

Anthropology: archaeology; cultural

and personality; social and ethnology; applied anthropology.

Economics: econometrics and economic statistics; history of economic thought; international economics; industrial, labor, and agricultural economics; macroeconomics; microeconomics; public finance and fiscal policy; theory; economic systems and development.

Political science: area or regional studies; comparative government; history of political ideas; international relations and law; national political and legal systems; political theory; public administration.

Sociology: comparative and historical; complex organizations; culture and social structure; demography; group interactions, social problems and social welfare; sociological theory.

Social sciences, n.e.c.² linguistics; research in education; research in history; socioeconomic geography; research in law, e.g., attempts to assess the impact on society of legal systems and practices.

h. **Other sciences not elsewhere classified** includes multidisciplinary and interdisciplinary projects that cannot be classified within one of the broad fields of science.

8. geographic distribution of 1982 r&d obligations

a. Nine agencies participated in the survey covering the geographic distribution of obligations for research and development and R&D plant. These nine agencies accounted for 97 percent of total Federal R&D and R&D plant obligations in 1982. The respondents were the Departments of Agriculture (USDA); Commerce; Energy (DOE); Defense (DOD); Health and Human Services (HHS); the Interior; and Transportation (DOT); the Environmental Protection Agency (EPA); NASA; and NSF.

b. Data were requested for the "actual" year 1982 in terms of the principal location (State or outlying area) where the work was performed by the prime contractor, grantee, or intramural organization. When this information was not available in their records, the respondents were asked to

assign the obligations to the State, outlying area, or office abroad where the headquarters of the U.S. prime contractor, grantee, or intramural organization was located.

c. Obligations were reported for research and development as a combined amount.

d. Specifically omitted from the geographic survey were R&D obligations to foreign performers and obligations for R&D plant used in support of foreign performers. Foreign performer data, by country, are reported in another part of the *Federal Funds* survey.

changes in reporting

Responses from the agencies in this survey, as in the previous ones, reflect revisions of estimates for the latest two years of the previous report, in this case fiscal years 1982 and 1983. Such revision is part of the budgetary cycle. From time to time responses also reflect reappraisals and revisions in classification of various aspects of agencies' R&D programs. When this occurs, NSF requires the agencies to provide revised prior-year data to maintain consistency and comparability with the most recent concepts.

limitations of the data

Funds for research and development were reported on a 3-year basis comparable with the 1984 budget, upon which the data were based. The respondents reconciled the data reported to the *Federal Funds* survey with amounts for research and development provided to OMB for the 1984 budget. The amounts reported for each year, as already stated, are the obligations or outlays incurred in that year, regardless of when the funds were authorized or received by an agency and regardless of whether the funds were identified in the agency's budget specifically for research, development, and/or R&D plant.

Data submitted by the Federal agencies for 1982 are considered to be actual since they represent virtually completed transactions. Amounts reported for 1983 and

1984 are estimates in that they are subject to further appropriation, apportionment, or deferral decisions. The effects of these and other, later actions on 1983 and 1984 outlays and obligations will be reflected in the next report.

Respondent judgment is often necessary in classifying the data. Most agency R&D programs must be separated by agency respondents from other, larger programs because they are not identified as budget-line items. R&D programs, once identified, must then be further subdivided into the survey categories: Basic research, applied research, development, performers, and fields of science. Over the years, however, the participating agencies have developed increasing skill and consistency in meeting the survey requirements.

Some agencies have not been able to report the full costs of research and development. For example, the headquarters costs of planning and administering R&D programs of DOD (estimated at a fraction of 1 percent of the DOD R&D total) are not included because this agency has stated that identification of the amounts is impracticable.

R&D plant data are also to some extent underreported because of the difficulty encountered by some agencies, particularly DOD and NASA, in identifying and reporting these data. While DOD reports obligations for R&D plant under its construction appropriation, DOD is able to identify only a small portion of the R&D plant support within R&D contracts that are funded from its RDT&E appropriation. NASA cannot separately identify those portions of industrial R&D contracts applicable to R&D plant but subsumes R&D plant data in the R&D data covering industrial performance; R&D plant data for other NASA performing sectors can be, and are, reported.

relation to other reports

1. federal support to universities and colleges

NSF conducts a separate survey covering Federal support to individual universities and colleges. This survey is based on data provided by the Federal agencies

under the reporting system established by the former Committee on Academic Science and Engineering (CASE) of the Federal Council for Science and Technology. The reports resulting from these surveys are entitled *Federal Support to Universities, Colleges, and Selected Nonprofit Institutions* and are referred to as the CASE reports.

Both the CASE and *Federal Funds* reports provide data on Federal obligations for research and development and R&D plant to universities and colleges and to university-administered FFRDC's. The CASE report, however, is based on obligations of Federal agencies to each individual academic institution, whereas the *Federal Funds* report is concerned with obligations to universities and colleges as a performer group. The CASE report additionally includes funds for non-R&D activities, such as science education and nonscience support. Further, the CASE survey is based on reports of only 15 agencies (USDA; Commerce; DOD; the Departments of Education, DOE, HHS, Housing and Urban Development, Interior, and Labor; DOT; EPA; NASA; NSF; the Agency for International Development; and the Nuclear Regulatory Commission), whereas the *Federal Funds* survey is composed of obligations of all agencies with R&D programs. The 15 respondents to CASE, however, account for more than 98 percent of total Federal R&D support to universities and colleges and all obligations to university-administered FFRDC's.

The different reporting procedures have led to the reporting of different totals to the CASE and *Federal Funds* surveys, as follows:

a. The obligations for research and development to universities and colleges reported for *Federal Funds* in 1982 amounted to \$4,605 million, or \$25 million more than the amount reported for CASE.

b. The R&D obligation total for university-administered FFRDC's, as reported to *Federal Funds*, was \$1,977 million in 1982, or \$77 million more than reported for CASE. For *Federal Funds*, the amount subcontracted by the NASA university-administered Jet Propulsion Laboratory was included in ultimate-performer categories; whereas for CASE, the subcontracted amount was included in the R&D obligations to FFRDC's administered by universities.

c. Total R&D plant obligations to universities and colleges reported to the *Federal Funds* survey were \$30 million in 1982, or \$1 million less than the amount reported to the CASE survey.

d. Total R&D plant obligations to university-administered FFRDC's, as reported to *Federal Funds*, were \$442 million in 1982, or \$36 million more than reported to CASE.

The following factors should also be considered in comparing the data appearing in the two reports:

For *Federal Funds* each agency includes as part of its obligations the amounts transferred to other agencies for R&D activities. A receiving agency does not report funds transferred from another agency. In the CASE survey, by contrast, the data are reported by the agency that makes the final distribution of the funds to a given institution. Thus, for the CASE survey, agencies include funds received from other agencies and exclude funds transferred to other agencies, the reverse of the *Federal Funds* process. Although such transfers should balance each other out with no resulting changes in total R&D obligations, these different reporting requirements add to the possibility of differences between the two reports.

The CASE responses are in many instances prepared by different operating units within the agencies from those that prepare the *Federal Funds* responses. The

CASE data are also collected several months earlier than the *Federal Funds* data. Theoretically, these conditions should not add to reporting differences, but in practice, differences do arise.

2. special analyses, budget of the united states

In a section of *Special Analyses, Budget of the United States Government*, OMB publishes estimates of obligations and outlays for research, development, and R&D plant. These data, as shown in "Special Analysis K: Research and Development" in the 1984 budget, did not provide as much detail on character of work as *Federal Funds* data, and they did not include information on performers, fields of science, or geographic distribution.

"Special Analysis K" and *Federal Funds* utilized the same definitions for research and development and for R&D plant. The estimates for research and development published in the two reports are comparable, even though minor differences exist. The comparison between the two reports is as follows:

Total Federal R&D obligations
[Billions of dollars]

	FY 1982	FY 1983	FY 1984
Federal Funds	\$36.4	\$38.7	\$45.5
Special Analysis K . .	36.4	38.9	45.8

3. federal r&d funding by budget function: fiscal years 1982-84

NSF published a special report under the above title, providing an analysis of Federal R&D programs by budget function categories. The *Federal Funds*, Volume XXXII survey, by contrast, reported on R&D funding by agencies rather than by functional categories. The *Federal Funds* report provided obligational data rather than budget authority data, which formed the basis for the function report. The R&D budget authority data for 1982-84 in the function report were based on information provided to OMB by the agencies as background for "Special Analysis K" in the 1984 budget. Further program information was based on budget justification documents of the leading R&D support agencies and information provided directly to NSF by some of the smaller agencies.

4. other reports

a. Agencies may classify their R&D programs for purposes other than those for which the *Federal Funds* survey is conducted. Definitions and guidelines that are suitable to these other purposes may result in information that is not comparable with the data transmitted to NSF for *Federal Funds*.

federally funded research and development centers, fiscal years 1982-84

NOTE: Total Federal obligations for R&D and R&D plant support to each FFRDC in fiscal year 1982 are shown in parentheses. The overall total is \$4,816,966,000.

department of defense office of the secretary of defense

Administered by other nonprofit institutions:

Institute for Defense Analyses (IDA),
Arlington, Virginia (\$16,183,000)

department of the navy

Administered by universities and colleges:

Center for Naval Analyses (University
of Rochester), Arlington, Virginia
(\$21,957,000)

department of the air force

Administered by universities and colleges:

Lincoln Laboratory (Massachusetts In-
stitute of Technology), Lexington,
Massachusetts (\$155,112,000)

Administered by other nonprofit institutions:

Aerospace Corporation, El Segundo,
California (\$207,225,000)

C3I Division (MITRE Corporation),³
Bedford, Massachusetts (\$147,739,000)

Project Air Force (RAND Corporation),⁴
Santa Monica, California (\$14,848,000)

department of health and human services

national institutes of health

Administered by industrial firms:

Frederick Cancer Research Center (Lit-
ton Bionetics, Inc., Litton Industries),
Frederick, Maryland (\$31,318,000)

department of energy

Administered by industrial firms:

Bettis Atomic Power Laboratory (West-
inghouse Electric Corp.), Pittsburgh,
Pennsylvania (\$282,921,000)

Energy Technology Engineering Center
(Rockwell International Corporation),
Santa Susana, California (\$36,405,000)

Hanford Engineering Development
Laboratory (Westinghouse-Hanford
Corp.), Richland, Washington
(\$287,698,000)

Idaho National Engineering Laboratory
(EG&G Idaho, Inc.; Exxon Nuclear Idaho
Co.; Argonne National Laboratory,
West; Westinghouse Electric Corp.),
Idaho Falls, Idaho (\$143,706,000)

Knolls Atomic Power Laboratory (Gen-
eral Electric Company), Schenectady,
New York (\$231,492,000)

Oak Ridge National Laboratory (Union
Carbide Corp.), Oak Ridge, Tennessee
(\$201,300,000)

³Only the C3I Division of the MITRE Corporation is reported as an FFRDC. All other agency support to MITRE is reported under "other nonprofit institutions excluding FFRDCs."

⁴Only the Project Air Force portion of the RAND Corporation is reported as an FFRDC. All other agency support to RAND is reported under "nonprofit institutions excluding FFRDCs."

Sandia National Laboratories (Western Electric Co., Inc.-Sandia Corp.), Albuquerque, New Mexico (\$558,756,000)
Savannah River Laboratory (E.I. duPont de Nemours & Co., Inc.), Aiken, South Carolina (\$95,020,000)

Administered by universities and colleges:

Ames Laboratory (Iowa State University of Science and Technology), Ames, Iowa (\$15,553,000)

Argonne National Laboratory (University of Chicago and Argonne Universities Assn.), Argonne, Illinois (\$223,896,000)

Brookhaven National Laboratory (Associated Universities, Inc.), Upton, Long Island, New York (\$164,404,000)

E. O. Lawrence Berkeley Laboratory (University of California), Berkeley, California (\$130,728,000)

E. O. Lawrence Livermore National Laboratory (University of California), Livermore, California (\$590,276,000)

Fermi National Accelerator Laboratory (Universities Research Association, Inc.), Batavia, Illinois (\$139,758,000)

Los Alamos National Laboratory (University of California), Los Alamos, New Mexico (\$490,165,000)

Oak Ridge Associated Universities, Oak Ridge, Tennessee (\$9,250,000)

Princeton Plasma Physics Laboratory (Princeton University), Princeton, New Jersey (\$125,340,000)

Stanford Linear Accelerator Center (Stanford University), Stanford, California (\$71,188,000)

Administered by other nonprofit institutions:

Pacific Northwest Laboratory (Battelle Memorial Institute), Richland, Washington (\$90,800,000)

Solar Energy Research Institute (Midwest Research Institute), Golden, Colorado (\$53,224,000)

National Aeronautics and Space Administration

Administered by universities and colleges:

Jet Propulsion Laboratory (California Institute of Technology), Pasadena, California (\$208,485,000)

National Science Foundation

Administered by universities and colleges:

Cerro Tololo Inter-American Observatory (Association of Universities for Research in Astronomy, Inc.), La Serena, Chile (\$6,057,000)

Kitt Peak National Observatory (Association of Universities for Research in Astronomy, Inc.), Tucson, Arizona (\$11,220,000)

National Astronomy and Ionosphere Center (Cornell University), Arecibo, Puerto Rico (\$5,320,000)

National Center for Atmospheric Research (University Corporation for Atmospheric Research), Boulder, Colorado (\$32,534,000)

National Radio Astronomy Observatory (Associated Universities, Inc.), Green Bank, West Virginia (\$15,097,000)

Sacramento Peak Observatory (Association of Universities for Research in Astronomy, Inc.), Sunspot, New Mexico (\$2,000,000)

categories of ffrdc's⁵

Total of Federal obligations, for R&D and R&D plant support to each FFRDC in fiscal year 1982 is shown in parentheses. The overall total is \$4,816,966,000

research laboratories

(\$314,492,000)

DOE: Fermi National Accelerator Laboratory (\$139,758,000)

DOE: Stanford Linear Accelerator (\$71,188,000)

HHS/NIH: Frederick Cancer Research Center (\$31,318,000)

NSF: Cerro Tololo Inter-American Observatory (\$6,057,000)

NSF: Kitt Peak National Observatory (\$11,220,000)

NSF: National Astronomy and Ionosphere Center (\$5,320,000)

NSF: National Center for Atmospheric Research (\$32,534,000)

NSF: National Radio Astronomy Observatory (\$15,097,000)

NSF: Sacramento Peak Observatory (\$2,000,000)

r&d laboratories (\$4,094,522,000)

DOD/AF: Lincoln Laboratory (\$155,112,000)

DOE: Ames Laboratory (\$15,553,000)

DOE: Argonne National Laboratory (\$223,896,000)

DOE: Bettis Atomic Power Laboratory (\$282,921,000)

DOE: Brookhaven National Laboratory (\$164,404,000)

DOE: E.O. Lawrence Berkeley Laboratory (\$130,728,000)

DOE: E.O. Lawrence Livermore National Laboratory (\$590,276,000)

DOE: Energy Technology Engineering Center (\$36,405,000)

DOE: Hanford Engineering Development Laboratory (\$287,698,000)

DOE: Idaho National Engineering Laboratory (\$144,706,000)

DOE: Knolls Atomic Power Laboratory (\$231,492,000)

DOE: Los Alamos National Laboratory (\$490,156,000)

DOE: Oak Ridge Associated Universities (\$9,250,000)

DOE: Oak Ridge National Laboratory (\$201,300,000)

DOE: Pacific Northwest Laboratory (\$90,800,000)

DOE: Princeton Plasma Physics Laboratory (\$125,340,000)

DOE: Sandia National Laboratories (\$558,756,000)

DOE: Savannah River Laboratory (\$95,020,000)

DOE: Solar Energy Research Institute (\$53,224,000)

NASA: JET Propulsion Laboratory (\$208,485,000)

study and analysis centers

(\$52,988,000)

DOD/AF: Project Air Force (\$14,848,000)

DOD/Navy: Center for Naval Analysis (\$21,957,000)

DOD/OSD: Institute of Defense Analysis (\$16,183,000)

system engineering/system integration centers (\$354,964,000)

DOD/AF: Aerospace Corporation (\$207,225,000)

DOD/AF: C³ Division of MITRE (\$147,739,000)

⁵Categories are defined in the Technical Notes under Performer: FFRDC's

appendix c

detailed statistical tables

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notes

- Estimates for 1984 are based on *The Budget of the United States Government, Fiscal Year 1981*, as submitted to Congress by the administration, and do not reflect subsequent appropriations and apportionment actions.
- Details may not add to totals because of rounding.
- Asterisks appearing in lieu of figures indicate that the amounts are less than \$50,000 or less than .05 percent.
- The abbreviation "FFRDC's" appearing in statistical tables refers to federally funded research and development centers.
- The Agency for International Development is included within the International Development Cooperation Agency.
- The Bonneville Power Administration, within the Department of the Interior; the Bureau of Alcohol, Tobacco, and Firearms, within the Department of Treasury; the Community Services Administration; and the Office of Personnel Management no longer fund R&D projects and have been omitted from this volume.
- In tables showing extramural performers, obligations of the Department of Agriculture to agricultural experiment stations are included within obligations to universities and colleges.
- Defense Agencies within the Department of Defense include the Defense Advanced Research Projects Agency, the Defense Nuclear Agency, the Defense Communications Agency, the Defense Mapping Agency, the Defense Logistics Agency, the Uniformed Services University of the Health Sciences, and technical support, Joint Chiefs of Staff/Office of the Secretary of Defense.
- The Office of Legal Policy within the Department of Justice replaces the Office of the Attorney General.
- R&D data reported by the National Aeronautics and Space Administration are in terms of budget plan rather than obligations.
- The historical tables for Volume XXXII, providing R&D data for 1974 through 1984 (C-113 through C-133), are not comparable with totals for those years in appendix tables issued to accompany earlier *Federal Funds* reports. Some prior-year changes occur almost every year, thus changing totals in many categories.

For trend comparisons, use only these tables, appendix C, for Volume XXXII. Do not use the earlier tables in the *Federal Funds* series.

TABLE C-1. SUMMARY OF FEDERAL FUNDS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT:
FISCAL YEARS 1982, 1983, AND 1984

(MILLIONS OF DOLLARS)

ITEM	ACTUAL, 1982	ESTIMATES			
		1983	% CHG 1982-1983	1984	% CHG 1983-1984
TOTAL OUTLAYS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT	35,766.8	39,584.8	10.7%	45,316.0	14.5%
RESEARCH AND DEVELOPMENT	34,390.7	38,158.8	11.0	43,834.1	14.9
R&D PLANT	1,376.1	1,426.0	3.6	1,481.9	3.9
TOTAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT	37,822.4	40,079.4	6.0	47,063.6	17.4
RESEARCH AND DEVELOPMENT	36,432.6	38,710.1	6.3	45,497.0	17.5
PERFORMERS:					
FEDERAL INTRAMURAL 1/.....	9,141.0	10,228.3	11.9	10,969.9	7.3
INDUSTRIAL FIRMS	17,192.2	17,729.3	3.1	22,957.4	29.5
FFRDOS ADMINISTERED BY INDUSTRIAL FIRMS	1,506.4	1,525.1	1.2	1,614.4	5.9
UNIVERSITIES AND COLLEGES	4,605.5	4,996.1	8.5	5,270.7	5.5
FFRDOS ADMINISTERED BY UNIVERSITIES AND COLLEGES	1,976.7	2,088.9	5.7	2,291.9	9.7
OTHER NONPROFIT INSTITUTIONS	1,091.7	1,176.7	7.8	1,335.6	13.5
FFRDOS ADMINISTERED BY NONPROFIT INSTITUTIONS	520.6	568.1	9.1	683.2	20.3
STATE AND LOCAL GOVERNMENTS	184.3	210.0	14.0	189.1	-10.0
FOREIGN	214.3	187.6	-12.4	184.8	-1.5
RESEARCH	13,022.2	14,154.3	8.7	14,663.2	3.6
PERFORMERS:					
FEDERAL INTRAMURAL 1/.....	4,194.2	4,577.0	9.1	4,636.6	1.3
INDUSTRIAL FIRMS	2,156.6	2,340.0	8.5	2,426.6	3.7
FFRDOS ADMINISTERED BY INDUSTRIAL FIRMS	487.3	515.1	5.7	502.0	-2.5
UNIVERSITIES AND COLLEGES	4,045.4	4,407.5	9.0	4,667.1	5.9
FFRDOS ADMINISTERED BY UNIVERSITIES AND COLLEGES	1,051.7	1,165.3	10.3	1,286.8	10.4
OTHER NONPROFIT INSTITUTIONS	741.5	804.4	8.2	785.9	-2.3
FFRDOS ADMINISTERED BY NONPROFIT INSTITUTIONS	101.2	83.8	-19.5	96.1	14.7
STATE AND LOCAL GOVERNMENTS	121.9	144.6	14.8	139.7	-3.4
FOREIGN	101.3	116.7	7.7	122.5	5.0
FIELDS OF SCIENCE:					
LIFE SCIENCES	4,745.5	5,133.0	8.2	5,251.0	2.3
PSYCHOLOGY	218.4	241.4	10.5	271.7	12.5
PHYSICAL SCIENCES	2,500.4	2,851.7	14.1	3,178.8	11.5
ENVIRONMENTAL SCIENCES	1,148.3	1,218.6	6.1	1,188.6	-2.5
MATHEMATICS AND COMPUTER SCIENCES	350.1	399.4	14.1	481.6	20.6
ENGINEERING	3,386.6	3,501.5	3.4	3,486.9	-4.4
SOCIAL SCIENCES	385.9	425.5	10.3	432.3	1.6
OTHER SCIENCES, NEC	287.0	383.1	33.5	372.3	-2.8
BASIC RESEARCH	5,481.6	6,086.0	11.0	6,615.4	8.7
PERFORMERS:					
FEDERAL INTRAMURAL 1/.....	1,465.5	1,650.4	12.6	1,774.3	7.5
INDUSTRIAL FIRMS	270.9	301.5	11.3	331.3	9.9
FFRDOS ADMINISTERED BY INDUSTRIAL FIRMS	87.4	89.1	1.9	97.7	9.7
UNIVERSITIES AND COLLEGES	2,727.1	3,018.3	10.7	3,295.0	9.2
FFRDOS ADMINISTERED BY UNIVERSITIES AND COLLEGES	516.7	578.7	12.0	663.4	14.6
OTHER NONPROFIT INSTITUTIONS	355.6	373.5	5.0	384.9	3.1
FFRDOS ADMINISTERED BY NONPROFIT INSTITUTIONS	9.0	7.9	-12.6	7.4	-5.2
STATE AND LOCAL GOVERNMENTS	24.5	35.0	43.0	27.5	-21.3
FOREIGN	24.9	31.8	27.6	33.9	6.6
FIELDS OF SCIENCE:					
LIFE SCIENCES	2,526.0	2,796.4	10.7	2,926.6	4.7
PSYCHOLOGY	89.9	99.0	10.2	105.2	6.2
PHYSICAL SCIENCES	1,393.8	1,556.8	11.7	1,731.5	11.2
ENVIRONMENTAL SCIENCES	520.1	560.3	7.7	605.9	8.1
MATHEMATICS AND COMPUTER SCIENCES	165.1	195.8	18.6	240.0	22.4
ENGINEERING	610.5	665.5	9.0	786.0	18.1
SOCIAL SCIENCES	120.2	125.2	4.1	136.4	8.9
OTHER SCIENCES, NEC	56.1	87.2	55.4	83.8	-3.9
APPLIED RESEARCH	7,540.6	8,068.3	7.0	8,047.9	-3.3
PERFORMERS:					
FEDERAL INTRAMURAL 1/.....	2,728.7	2,926.6	7.3	2,862.3	-2.2
INDUSTRIAL FIRMS	1,885.7	2,038.5	8.1	2,095.3	2.8
FFRDOS ADMINISTERED BY INDUSTRIAL FIRMS	400.0	426.0	6.5	404.3	-5.1
UNIVERSITIES AND COLLEGES	1,318.3	1,589.3	5.4	1,372.1	-1.2
FFRDOS ADMINISTERED BY UNIVERSITIES AND COLLEGES	540.0	586.6	8.6	623.4	6.3
OTHER NONPROFIT INSTITUTIONS	387.9	430.9	11.1	401.1	-4.9
FFRDOS ADMINISTERED BY NONPROFIT INSTITUTIONS	95.2	76.0	-20.2	88.7	16.7
STATE AND LOCAL GOVERNMENTS	101.4	109.6	8.0	112.2	2.4
FOREIGN	83.4	84.9	1.8	88.6	4.4
FIELDS OF SCIENCE:					
LIFE SCIENCES	2,219.5	2,336.7	5.3	2,324.5	-5.5
PSYCHOLOGY	128.5	142.4	10.8	166.5	16.9
PHYSICAL SCIENCES	1,106.5	1,295.0	17.0	1,447.4	11.8
ENVIRONMENTAL SCIENCES	628.3	658.3	4.8	582.7	-11.5
MATHEMATICS AND COMPUTER SCIENCES	185.0	203.7	10.1	241.6	18.6
ENGINEERING	2,776.1	2,836.0	2.2	2,700.9	-4.8
SOCIAL SCIENCES	265.8	300.3	13.0	295.9	-1.5
OTHER SCIENCES, NEC	231.0	296.0	28.2	288.5	-2.5

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TABLE C-1. SUMMARY OF FEDERAL FUNDS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT:
FISCAL YEARS 1982, 1983, AND 1984

(MILLIONS OF DOLLARS)

- CONTINUED

ITEM	ACTUAL, 1982	ESTIMATES			
		1983	% CHG 1982-1983	1984	% CHG 1983-1984
DEVELOPMENT	23,410.4	24,555.7	4.9%	30,833.8	25.6%
PERFORMERS:					
FEDERAL INTRAMURAL 1/	4,946.8	5,651.3	14.2	6,333.4	12.1
INDUSTRIAL FIRMS	15,035.7	15,389.3	2.4	20,530.9	33.4
FFRDCS ADMINISTERED BY INDUSTRIAL FIRMS	1,019.1	1,010.0	-9	1,112.4	10.1
UNIVERSITIES AND COLLEGES	560.0	588.6	5.1	603.7	2.6
FFRDCS ADMINISTERED BY UNIVERSITIES AND COLLEGES	920.0	923.6	.4	1,005.0	8.8
OTHER NONPROFIT INSTITUTIONS	31.1	372.3	6.9	549.6	47.6
FFRDCS ADMINISTERED BY NONPROFIT INSTITUTIONS	411.4	484.3	16.3	587.1	21.2
STATE AND LOCAL GOVERNMENTS	51.4	65.5	12.2	49.4	-24.6
FOREIGN	106.0	70.9	-33.0	62.3	-12.2
R&D PLANT	1,389.8	1,369.3	-1.5	1,566.6	14.4
PERFORMERS SUPPORTED:					
FEDERAL INTRAMURAL	426.0	499.3	17.2	644.1	29.0
INDUSTRIAL FIRMS	110.4	151.9	37.5	70.6	-53.5
FFRDCS ADMINISTERED BY INDUSTRIAL FIRMS	362.2	330.9	-8.6	411.2	24.3
UNIVERSITIES AND COLLEGES	30.3	32.5	7.4	40.0	23.0
FFRDCS ADMINISTERED BY UNIVERSITIES AND COLLEGES	441.7	341.3	-22.7	390.3	14.4
OTHER NONPROFIT INSTITUTIONS	6.6	4.4	-32.4	4.7	5.0
FFRDCS ADMINISTERED BY NONPROFIT INSTITUTIONS	9.4	5.7	-39.9	2.2	-62.0
FOREIGN	3.2	3.3	5.3	3.5	6.1

1/ COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS ARE COVERED
AS WELL AS ACTUAL INTRAMURAL PERFORMANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-2. FEDERAL FUNDS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1982, 1983, AND 1984

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	1982	ESTIMATES		1982	ESTIMATES	
		1983	1984		1983	1984
TOTAL, ALL AGENCIES	37,822.4	40,079.4	47,063.6	35,766.8	39,584.8	45,316.0
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	818.7	887.7	874.9	828.4	872.8	869.8
AGRICULTURAL COOPERATIVE SERVICE	1.7	1.7	1.4	1.7	1.8	1.6
AGRICULTURAL MARKETING SERVICE	1.2	1.5	-	1.5	1.5	-
AGRICULTURAL RESEARCH SERVICE	126.0	469.4	472.4	436.1	464.2	470.3
COOPERATIVE STATE RESEARCH SERVICE	219.0	244.9	231.7	219.8	230.4	232.3
ECONOMIC RESEARCH SERVICE	39.3	39.0	45.0	37.0	38.7	41.3
FOREST SERVICE	112.5	105.5	101.2	116.0	108.2	101.1
HUMAN NUTRITION INFORMATION SERVICE	8.5	8.2	6.6	3.8	12.5	6.6
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	2.6	8.8	7.5	4.6	6.8	7.7
OFFICE OF TRANSPORTATION	.9	.8	.8	.9	.8	.8
STATISTICAL REPORTING SERVICE	7.0	7.9	8.2	7.0	7.9	8.2
DEPARTMENT OF COMMERCE, TOTAL	337.3	349.6	236.6	286.5	325.3	251.3
BUREAU OF THE CENSUS	3.8	4.4	4.5	3.7	4.2	4.5
ECONOMIC DEVELOPMENT ADMINISTRATION	9.6	10.0	-	12.1	14.0	.8
NATIONAL BUREAU OF STANDARDS	89.9	104.3	80.3	87.6	95.5	82.5
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	222.0	220.8	142.1	174.1	201.0	153.8
NATIONAL TELECOMMUNICATIONS & INFORMATION ADMIN	11.3	8.9	8.3	8.0	9.6	8.5
OFFICE OF THE SECRETARY	.	.5	.7	.2	.3	.5
PATENT AND TRADEMARK OFFICE	.7	.7	.7	.7	.7	.7
DEPARTMENT OF DEFENSE, TOTAL	20,913.1	23,448.1	30,173.7	18,482.9	22,248.4	27,214.8
DEPARTMENT OF THE ARMY	3,785.2	3,982.0	4,936.2	3,414.4	3,855.8	4,560.7
MILITARY FUNCTIONS	3,756.2	3,952.6	4,906.9	3,385.3	3,826.4	4,531.3
MILITARY CONSTRUCTION	21.3	10.8	26.0	10.3	15.9	15.0
PAY & ALLOWANCES OF MILITARY PERSONNEL IN R&D	143.7	144.7	152.2	145.3	144.8	151.9
ROD&E APPROPRIATION	3,589.2	3,797.1	4,728.7	3,229.7	3,646.0	4,364.4
CIVIL FUNCTIONS (CORPS OF ENGINEERS)	29.0	29.4	29.4	29.0	29.4	29.4
DEPARTMENT OF THE NAVY	6,001.0	6,197.9	8,311.4	5,394.7	6,082.0	7,336.2
MILITARY CONSTRUCTION	39.5	35.8	107.2	21.0	35.8	51.7
PAY & ALLOWANCES OF MILITARY PERSONNEL IN R&D	130.3	145.2	145.1	129.9	144.8	144.7
ROD&E APPROPRIATION	5,829.8	6,013.9	8,055.3	5,240.3	5,900.7	7,138.9
SPECIAL FOREIGN CURRENCY PROGRAM	1.3	3.0	3.8	3.5	.7	.9
DEPARTMENT OF THE AIR FORCE	9,442.6	11,074.0	13,997.0	8,209.1	10,317.6	12,746.1
MILITARY CONSTRUCTION	41.4	85.4	80.1	26.5	53.3	72.1
PAY & ALLOWANCES OF MILITARY PERSONNEL IN R&D	365.7	402.0	425.0	388.4	394.0	417.0
ROD&E APPROPRIATION	9,035.5	10,586.6	13,491.9	7,794.2	9,870.3	12,257.0
DEFENSE AGENCIES	1,643.3	2,130.4	2,872.8	1,420.0	1,943.2	2,518.8
ROD&E APPROPRIATION	24.7	14.9	14.0	1,420.0	1,943.2	2,518.8
DIRECTOR OF TEST & EVALUATION, DEFENSE	41.0	63.8	56.3	44.8	49.8	53.0
DEPARTMENT OF EDUCATION	128.0	145.4	126.3	150.1	173.6	161.1
DEPARTMENT OF ENERGY	5,622.2	5,399.7	5,389.5	5,785.4	5,987.0	5,681.0
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	3,965.4	4,395.9	4,460.1	4,052.1	4,323.2	4,414.2
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	251.4	284.2	322.3	292.0	297.9	323.8
CENTERS FOR DISEASE CONTROL	75.0	71.6	76.8	88.4	72.5	60.1
FOOD & DRUG ADMINISTRATION	75.0	113.6	83.9	59.4	67.3	78.2
HEALTH CARE FINANCING ADMINISTRATION	29.1	30.0	30.0	29.1	30.0	30.0
HEALTH RESOURCES AND SERVICES ADMIN	10.1	9.9	1.2	17.5	20.3	5.4
HUMAN DEVELOPMENT SERVICES	27.2	25.0	11.9	33.0	25.9	23.6
NATIONAL INSTITUTES OF HEALTH	3,452.6	3,805.8	3,875.2	3,475.0	3,758.6	3,838.0
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	16.1	16.9	18.5	29.0	17.9	17.9
OFFICE OF THE SECRETARY	13.4	14.7	11.0	13.4	14.7	11.0
SOCIAL SECURITY ADMINISTRATION	15.5	24.3	29.3	15.4	18.2	26.3
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	28.9	31.9	27.2	37.0	34.7	31.2
DEPARTMENT OF THE INTERIOR, TOTAL	382.4	398.7	329.0	394.9	431.1	358.8
BUREAU OF LAND MANAGEMENT	5.3	6.6	6.7	5.3	6.6	6.7
BUREAU OF MINES	94.8	104.9	67.9	105.2	119.8	81.8
BUREAU OF RECLAMATION	10.1	9.8	10.0	10.7	12.5	10.0
GEOLOGICAL SURVEY	152.6	150.3	136.0	150.1	166.8	144.6
MINERAL MANAGEMENT SERVICE	-	1.5	1.5	-	1.2	1.2
NATIONAL PARK SERVICE	11.2	11.8	12.5	11.2	11.8	12.5
OFFICE OF THE SECRETARY	.5	6.8	1.6	.4	6.1	1.5
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT	1.5	1.5	1.0	1.4	2.0	2.0
OFFICE OF WATER RESEARCH & TECHNOLOGY	12.3	7.5	-	20.3	10.9	-
UNITED STATES FISH AND WILDLIFE SERVICE	94.2	98.0	91.8	90.4	93.4	98.6

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TABLE C-2. FEDERAL FUNDS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1982, 1983, AND 1984

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	1982	ESTIMATES		1982	ESTIMATES	
		1983	1984		1983	1984
DEPARTMENT OF JUSTICE, TOTAL	26.7	35.4	23.7	36.6	36.1	26.4
DRUG ENFORCEMENT ADMINISTRATION	3.2	2.6	2.3	2.7	2.9	3.0
FEDERAL BUREAU OF INVESTIGATION	2.7	1.1	2.6	1.1	2.0	1.5
FEDERAL PRISON SYSTEM	1.7	2.1	1.6	1.7	2.1	1.6
IMMIGRATION AND NATURALIZATION SERVICE	.6	1.2	.5	.3	1.2	.5
OFFICE OF JUSTICE ASSISTANCE, RESEARCH, AND STATISTICS ..	18.0	27.5	16.0	30.4	26.8	19.1
OFFICE OF LEGAL POLICY	.4	.8	.7	.4	1.1	.6
DEPARTMENT OF LABOR, TOTAL	25.4	18.0	19.6	29.4	18.8	18.2
BUREAU OF LABOR STATISTICS	.3	.3	.4	.3	.3	.4
EMPLOYMENT STANDARDS ADMINISTRATION	1.4	2.0	1.3	1.3	1.9	1.2
EMPLOYMENT AND TRAINING ADMINISTRATION	16.1	7.2	8.3	20.2	8.1	7.3
LABOR-MANAGEMENT SERVICES ADMINISTRATION	.7	.8	1.8	.7	.7	1.5
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	4.9	5.7	5.7	4.9	5.7	5.7
OFFICE OF THE SECRETARY	.9	1.0	1.2	.9	1.0	1.2
PENSION BENEFIT GUARANTEE CORPORATION	1.1	1.0	1.0	1.1	1.0	1.0
DEPARTMENT OF STATE, TOTAL	1.5	1.6	1.6	1.5	1.6	1.6
DEPARTMENTAL FUNDS	1.5	1.6	1.6	1.5	1.6	1.6
DEPARTMENT OF TRANSPORTATION, TOTAL	322.0	408.8	543.5	360.0	380.3	470.4
COAST GUARD	20.0	20.0	22.0	20.0	20.0	22.0
FEDERAL AVIATION ADMINISTRATION	99.4	156.4	326.9	110.9	133.2	250.5
FEDERAL HIGHWAY ADMINISTRATION	40.3	53.9	48.7	42.5	45.5	50.4
FEDERAL RAILROAD ADMINISTRATION	24.5	29.5	17.0	25.6	33.0	12.5
MARITIME ADMINISTRATION	11.1	17.3	13.0	18.9	18.3	15.2
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	55.9	59.7	57.5	60.2	58.6	56.9
OFFICE OF THE SECRETARY	3.3	5.6	7.3	5.6	5.5	6.0
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION	6.1	7.3	5.6	6.5	6.0	4.6
URBAN MASS TRANSPORTATION ADMINISTRATION	61.4	59.1	45.5	69.8	60.3	52.3
DEPARTMENT OF THE TREASURY, TOTAL	13.4	16.2	16.5	13.6	16.4	16.5
BUREAU OF ENGRAVING AND PRINTING	4.8	5.0	5.1	4.8	5.0	5.1
INTERNAL REVENUE SERVICE	5.4	8.4	8.7	5.4	8.4	8.7
OFFICE OF PROTECTIVE RESEARCH	-	*	*	.3	.3	*
UNITED STATES CUSTOMS SERVICE	3.2	2.7	2.6	3.2	2.7	2.6
OTHER AGENCIES						
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	2.0	2.0	2.0	1.8	1.9	2.0
AGENCY FOR INTERNATIONAL DEVELOPMENT	205.9	181.5	213.2	188.6	253.3	259.3
APPALACHIAN REGIONAL COMMISSION	.4	.3	-	.4	.3	-
CONSUMER PRODUCT SAFETY COMMISSION	.2	.5	.5	.2	.5	.4
ENVIRONMENTAL PROTECTION AGENCY	335.1	240.8	207.7	336.2	295.2	249.8
FEDERAL COMMUNICATIONS COMMISSION	1.2	1.2	1.0	1.2	1.2	1.1
FEDERAL EMERGENCY MANAGEMENT AGENCY	9.2	3.7	13.0	8.8	3.5	12.4
FEDERAL HOME LOAN BANK BOARD	2.7	3.0	3.1	2.7	3.0	3.1
FEDERAL TRADE COMMISSION	1.2	1.7	1.7	1.2	1.7	1.7
GENERAL SERVICES ADMINISTRATION	1.0	.7	1.8	1.0	.7	1.8
INTERNATIONAL TRADE COMMISSION	3.8	4.0	4.4	3.8	4.0	4.4
LIBRARY OF CONGRESS	5.7	6.0	6.0	5.4	6.2	6.1
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	3,191.6	2,513.5	2,613.0	3,252.9	2,646.1	3,600.3
NATIONAL SCIENCE FOUNDATION	976.8	1,062.7	1,248.5	1,015.1	1,004.1	1,145.3
NUCLEAR REGULATORY COMMISSION	220.3	205.5	199.7	208.6	205.5	199.7
SMITHSONIAN INSTITUTION	52.9	57.3	63.9	48.4	56.4	58.4
TENNESSEE VALLEY AUTHORITY	85.3	75.1	78.5	89.5	75.4	78.4
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	1.9	1.2	6.1	1.9	1.2	6.1
UNITED STATES INFORMATION AGENCY	.1	2.2	6.4	*	.9	5.3
VETERANS ADMINISTRATION	140.1	175.8	170.9	140.7	174.5	165.2

* INDICATES AMOUNT LESS THAN \$50,000.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-3. FEDERAL FUNDS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1982, 1983, AND 1984

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	1982	ESTIMATES		1982	ESTIMATES	
		1983	1984		1983	1984
TOTAL, ALL AGENCIES	36,432.6	38,710.1	45,497.0	34,390.7	38,158.8	43,834.1
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	797.3	852.9	848.4	807.2	839.1	847.3
AGRICULTURAL COOPERATIVE SERVICE	1.7	1.7	1.4	1.7	1.8	1.6
AGRICULTURAL MARKETING SERVICE	1.2	1.5	-	1.5	1.5	-
AGRICULTURAL RESEARCH SERVICE	404.9	445.0	456.3	417.5	433.4	454.2
COOPERATIVE STATE RESEARCH SERVICE	219.0	234.9	221.7	219.8	228.4	226.3
ECONOMIC RESEARCH SERVICE	39.3	39.0	45.0	37.0	38.7	41.3
FOREST SERVICE	112.1	105.0	100.8	113.2	107.3	100.6
HUMAN NUTRITION INFORMATION SERVICE	8.5	8.2	6.6	3.8	12.5	6.6
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	2.6	8.8	7.5	4.6	6.8	7.7
OFFICE OF TRANSPORTATION	.9	.8	.8	.9	.8	.8
STATISTICAL REPORTING SERVICE	7.0	7.9	8.2	7.0	7.9	8.2
DEPARTMENT OF COMMERCE, TOTAL	336.3	338.6	234.3	285.4	315.2	248.9
BUREAU OF THE CENSUS	3.8	4.4	4.5	3.7	4.2	4.5
ECONOMIC DEVELOPMENT ADMINISTRATION	9.6	10.0	-	12.1	14.3	.8
NATIONAL BUREAU OF STANDARDS	88.8	93.6	78.0	86.6	85.7	80.1
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	222.0	220.5	142.1	174.1	200.7	153.8
NATIONAL TELECOMMUNICATIONS & INFORMATION ADMIN	11.3	8.9	8.3	8.0	9.6	8.5
OFFICE OF THE SECRETARY	*	.5	.7	.2	.3	.5
PATENT AND TRADEMARK OFFICE	.7	.7	.7	.7	.7	.7
DEPARTMENT OF DEFENSE, TOTAL	20,622.6	23,125.1	29,735.5	18,251.2	21,959.5	26,865.7
DEPARTMENT OF THE ARMY	3,760.5	3,965.0	4,904.1	3,400.9	3,834.9	4,539.8
MILITARY FUNCTIONS	3,731.5	3,935.6	4,874.8	3,371.8	3,805.5	4,510.4
PAY & ALLOWANCES OF MILITARY PERSONNEL IN R&D	145.7	144.7	152.2	145.3	144.5	151.9
RDT&E APPROPRIATION	3,585.8	3,790.9	4,722.6	3,226.5	3,661.0	4,358.5
CIVIL FUNCTIONS (CORPS OF ENGINEERS)	29.0	29.4	29.4	29.0	29.4	29.4
DEPARTMENT OF THE NAVY	5,845.1	6,043.7	8,063.3	5,269.4	5,933.7	7,158.0
PAY & ALLOWANCES OF MILITARY PERSONNEL IN R&D	130.3	145.2	145.1	129.9	144.8	144.7
RDT&E APPROPRIATION	5,713.4	5,895.5	7,914.4	5,136.0	5,788.2	7,012.4
SPECIAL FOREIGN CURRENCY PROGRAM	1.3	3.0	3.8	3.5	.7	.9
DEPARTMENT OF THE AIR FORCE	9,357.9	10,937.3	13,864.0	8,141.4	10,213.0	12,621.1
PAY & ALLOWANCES OF MILITARY PERSONNEL IN R&D	365.7	402.0	425.0	388.4	394.0	417.0
RDT&E APPROPRIATION	8,992.2	10,535.3	13,439.0	7,753.0	9,819.0	12,204.1
DEFENSE AGENCIES	1,612.1	2,115.3	2,847.8	1,394.8	1,928.1	2,493.8
RDT&E APPROPRIATION	-	-	-	1,394.8	1,928.1	2,493.8
DIRECTOR OF TEST & EVALUATION, DEFENSE	41.0	63.8	56.3	44.8	49.8	53.0
DEPARTMENT OF EDUCATION	128.0	145.4	126.3	150.1	173.6	161.1
DEPARTMENT OF ENERGY	4,708.2	4,605.4	4,516.8	4,842.1	5,080.1	4,799.7
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	3,940.7	4,326.7	4,434.8	4,015.3	4,294.4	4,380.0
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	248.1	284.1	320.8	291.7	295.1	321.9
CENTERS FOR DISEASE CONTROL	75.0	71.6	76.8	88.4	72.5	60.1
FOOD & DRUG ADMINISTRATION	73.0	76.6	82.1	58.4	61.3	65.7
HEALTH CARE FINANCING ADMINISTRATION	29.1	30.0	30.0	29.1	30.0	30.0
HEALTH RESOURCES AND SERVICES ADMIN	10.1	9.9	1.2	17.5	20.3	5.4
HUMAN DEVELOPMENT SERVICES	27.2	25.0	11.9	33.0	25.9	23.6
NATIONAL INSTITUTES OF HEALTH	3,433.1	3,773.7	3,853.2	3,439.6	3,738.6	3,818.1
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	16.1	16.9	18.5	29.0	17.9	17.9
OFFICE OF THE SECRETARY	13.4	14.7	11.0	13.4	14.7	11.0
SOCIAL SECURITY ADMINISTRATION	15.5	24.3	29.3	15.4	18.2	26.3
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	28.9	31.9	27.2	37.0	34.7	31.2
DEPARTMENT OF THE INTERIOR, TOTAL	381.1	397.1	327.8	393.6	429.4	357.2
BUREAU OF LAND MANAGEMENT	5.3	6.6	6.7	5.3	6.6	6.7
BUREAU OF MINES	94.7	104.7	67.9	105.0	119.6	81.8
BUREAU OF RECLAMATION	10.1	9.8	10.0	10.7	12.5	10.0
GEOLOGICAL SURVEY	152.6	150.3	136.0	150.1	166.8	144.6
MINERAL MANAGEMENT SERVICE	-	1.5	1.5	-	1.2	1.2
NATIONAL PARK SERVICE	11.2	11.8	12.5	11.2	11.8	12.5
OFFICE OF THE SECRETARY	.5	6.8	1.6	.4	6.1	1.5
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT	1.5	1.5	1.0	1.4	2.0	2.0
OFFICE OF WATER RESEARCH & TECHNOLOGY	11.4	7.2	-	19.4	10.5	-
UNITED STATES FISH AND WILDLIFE SERVICE	93.9	97.0	90.6	90.1	92.4	97.0

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TABLE C-3. FEDERAL FUNDS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1982, 1983, AND 1984

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	1982	ESTIMATES		1982	ESTIMATES	
		1983	1984		1983	1984
DEPARTMENT OF JUSTICE, TOTAL	26.7	35.4	23.7	36.6	36.1	26.4
DRUG ENFORCEMENT ADMINISTRATION	3.2	2.6	2.3	2.7	2.9	3.0
FEDERAL BUREAU OF INVESTIGATION	2.7	1.1	2.6	1.1	2.0	1.5
FEDERAL PRISON SYSTEM	1.7	2.1	1.6	1.7	2.1	1.6
IMMIGRATION AND NATURALIZATION SERVICE	.6	1.2	.5	.3	1.2	.5
OFFICE OF JUSTICE ASSISTANCE, RESEARCH, AND STATISTICS ..	18.0	27.5	16.0	30.4	26.8	19.1
OFFICE OF LEGAL POLICY	.4	.8	.7	.4	1.1	.6
DEPARTMENT OF LABOR, TOTAL	25.4	18.0	19.6	29.4	18.8	18.2
BUREAU OF LABOR STATISTICS	.3	.3	.4	.3	.3	.4
EMPLOYMENT STANDARDS ADMINISTRATION	1.4	2.0	1.3	1.3	.9	1.2
EMPLOYMENT AND TRAINING ADMINISTRATION	16.1	7.2	8.3	20.2	8.1	7.3
LABOR-MANAGEMENT SERVICES ADMINISTRATION	.7	.8	1.8	.7	.7	1.5
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	4.9	5.7	5.7	4.9	5.7	5.7
OFFICE OF THE SECRETARY	.9	1.0	1.2	.9	1.0	1.2
PENSION BENEFIT GUARANTEE CORPORATION	1.1	1.0	1.0	1.1	1.0	1.0
DEPARTMENT OF STATE, TOTAL	1.5	1.6	1.6	1.5	1.6	1.6
DEPARTMENTAL FUNDS	1.5	1.6	1.6	1.5	1.6	1.6
DEPARTMENT OF TRANSPORTATION, TOTAL	310.1	394.5	520.0	347.0	369.4	451.7
COAST GUARD	20.0	20.0	22.0	20.0	20.0	22.0
FEDERAL AVIATION ADMINISTRATION	94.3	142.6	303.9	106.6	126.0	232.3
FEDERAL HIGHWAY ADMINISTRATION	40.3	53.9	48.7	42.5	45.5	50.4
FEDERAL RAILROAD ADMINISTRATION	18.2	29.5	17.0	17.4	29.8	12.5
MARITIME ADMINISTRATION	11.1	17.3	13.0	18.9	18.3	15.2
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	55.4	59.2	57.0	59.7	58.1	56.4
OFFICE OF THE SECRETARY	3.3	5.6	7.3	5.6	5.5	6.0
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION	6.1	7.3	5.6	6.5	6.0	4.6
URBAN MASS TRANSPORTATION ADMINISTRATION	61.4	59.1	45.5	69.8	60.3	52.3
DEPARTMENT OF THE TREASURY, TOTAL	13.3	16.1	16.4	13.6	16.4	16.4
BUREAU OF ENGRAVING AND PRINTING	4.8	5.0	5.1	4.8	5.0	5.1
INTERNAL REVENUE SERVICE	5.4	8.4	8.7	5.4	8.4	8.7
OFFICE OF PROTECTIVE RESEARCH	-	*	*	.3	.3	*
UNITED STATES CUSTOMS SERVICE	3.1	2.6	2.6	3.1	2.6	2.6
OTHER AGENCIES						
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	2.0	2.0	2.0	1.8	1.9	2.0
AGENCY FOR INTERNATIONAL DEVELOPMENT	199.9	175.2	206.5	178.3	237.6	243.3
APPALACHIAN REGIONAL COMMISSION	.4	.3	-	.4	.3	-
CONSUMER PRODUCT SAFETY COMMISSION	.2	.5	.5	.2	.5	.4
ENVIRONMENTAL PROTECTION AGENCY	335.1	240.8	207.7	336.2	295.2	249.8
FEDERAL COMMUNICATIONS COMMISSION	1.2	1.2	1.0	1.2	1.2	1.1
FEDERAL EMERGENCY MANAGEMENT AGENCY	9.2	3.7	13.0	8.8	3.5	12.4
FEDERAL HOME LOAN BANK BOARD	2.7	3.0	3.1	2.7	3.0	3.1
FEDERAL TRADE COMMISSION	1.2	1.7	1.7	1.2	1.7	1.7
GENERAL SERVICES ADMINISTRATION	1.0	.7	1.8	1.0	.7	1.8
INTERNATIONAL TRADE COMMISSION	3.8	4.0	4.4	3.8	4.0	4.4
LIBRARY OF CONGRESS	5.7	6.0	6.0	5.4	6.2	6.1
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	3,077.9	2,416.0	2,462.5	3,140.7	2,538.0	3,461.8
NATIONAL SCIENCE FOUNDATION	975.3	1,060.2	1,240.5	1,013.6	1,001.6	1,137.3
NUCLEAR REGULATORY COMMISSION	220.3	209.5	199.7	208.6	205.5	199.7
SMITHSONIAN INSTITUTION	52.4	55.7	63.6	48.0	55.1	58.0
TENNESSEE VALLEY AUTHORITY	85.0	74.9	78.3	89.3	75.1	78.2
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	1.9	1.2	6.1	1.9	1.2	6.1
UNITED STATES INFORMATION AGENCY	.1	2.2	6.4	*	.9	5.3
VETERANS ADMINISTRATION	137.3	162.7	159.8	137.7	157.4	156.4

* INDICATES AMOUNT LESS THAN \$50,000.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-4. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY
AND CHARACTER OF WORK: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
TOTAL, ALL AGENCIES	36,432,589	5,481,605	7,540,580	23,410,404
DEPARTMENTS				
DEPARTMENT OF AGRICULTURE, TOTAL	797,274	330,755	435,708	30,811
AGRICULTURAL COOPERATIVE SERVICE	1,704	-	1,704	-
AGRICULTURAL MARKETING SERVICE	1,245	-	1,008	237
AGRICULTURAL RESEARCH SERVICE	404,925	192,908	186,226	25,794
COOPERATIVE STATE RESEARCH SERVICE	219,032	91,323	127,709	-
ECONOMIC RESEARCH SERVICE	39,270	3,927	35,343	-
FOREST SERVICE	112,145	38,690	68,969	4,486
HUMAN NUTRITION INFORMATION SERVICE	8,500	-	8,500	-
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	2,560	1,126	1,229	205
OFFICE OF TRANSPORTATION	890	481	320	89
STATISTICAL REPORTING SERVICE	7,000	2,300	4,700	-
DEPARTMENT OF COMMERCE, TOTAL	336,278	16,867	259,188	60,223
BUREAU OF THE CENSUS	3,787	309	1,561	1,917
ECONOMIC DEVELOPMENT ADMINISTRATION	9,600	-	1,600	8,000
NATIONAL BUREAU OF STANDARDS	88,837	16,536	57,411	14,890
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	222,026	-	188,516	33,510
NATIONAL TELECOMMUNICATIONS & INFORMATION ADMIN	11,300	-	10,100	1,200
OFFICE OF THE SECRETARY	22	22	-	-
PATENT AND TRADEMARK OFFICE	706	-	-	706
DEPARTMENT OF DEFENSE, TOTAL	20,622,574	686,684	2,266,137	17,669,753
DEPARTMENT OF THE ARMY	3,760,489	187,662	451,561	3,121,266
DEPARTMENT OF THE NAVY	5,845,056	280,300	498,400	5,066,356
DEPARTMENT OF THE AIR FORCE	9,357,858	145,800	488,100	8,723,958
DEFENSE AGENCIES	1,618,134	72,922	828,076	717,136
DIRECTOR OF TEST & EVALUATION, DEFENSE	41,037	-	-	41,037
DEPARTMENT OF EDUCATION	127,981	14,199	56,268	57,514
DEPARTMENT OF ENERGY	4,708,158	642,211	1,053,877	3,012,070
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	3,940,745	2,144,694	1,460,890	335,161
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	248,119	117,331	128,725	2,063
CENTERS FOR DISEASE CONTROL	75,039	-	75,039	-
FOOD & DRUG ADMINISTRATION	73,000	-	73,000	-
HEALTH CARE FINANCING ADMINISTRATION	29,083	-	29,083	-
HEALTH RESOURCES AND SERVICES ADMIN	10,118	600	6,098	3,420
HUMAN DEVELOPMENT SERVICES	27,198	434	8,299	18,465
NATIONAL INSTITUTES OF HEALTH	3,433,148	2,020,650	1,103,802	308,696
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	16,148	5,679	8,220	2,249
OFFICE OF THE SECRETARY	13,353	-	13,085	268
SOCIAL SECURITY ADMINISTRATION	15,539	-	15,539	-
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	28,855	-	10,310	18,545
DEPARTMENT OF THE INTERIOR, TOTAL	381,074	76,454	275,006	29,614
BUREAU OF LAND MANAGEMENT	5,288	-	2,388	2,900
BUREAU OF MINES	94,707	15,922	65,172	13,613
BUREAU OF RECLAMATION	10,081	90	8,893	1,098
GEOLOGICAL SURVEY	152,560	52,625	99,435	500
NATIONAL PARK SERVICE	11,203	-	11,203	-
OFFICE OF THE SECRETARY	480	480	-	-
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT	1,500	-	1,500	-
OFFICE OF WATER RESEARCH & TECHNOLOGY	11,355	3,265	6,840	1,250
UNITED STATES FISH AND WILDLIFE SERVICE	93,900	4,072	79,575	10,253
DEPARTMENT OF JUSTICE, TOTAL	26,692	3,087	13,218	10,387
DRUG ENFORCEMENT ADMINISTRATION	3,200	-	1,300	1,900
FEDERAL BUREAU OF INVESTIGATION	2,748	-	-	2,748
FEDERAL PRISON SYSTEM	1,678	-	948	730
IMMIGRATION AND NATURALIZATION SERVICE	648	-	250	398
OFFICE OF JUSTICE ASSISTANCE, RESEARCH, AND STATISTICS	18,018	3,087	10,328	4,603
OFFICE OF LEGAL POLICY	400	-	392	8
DEPARTMENT OF LABOR, TOTAL	25,410	6,508	10,647	8,255
BUREAU OF LABOR STATISTICS	291	-	291	-
EMPLOYMENT STANDARDS ADMINISTRATION	1,400	-	1,400	-
EMPLOYMENT AND TRAINING ADMINISTRATION	16,072	6,508	2,146	7,418
LABOR-MANAGEMENT SERVICES ADMINISTRATION	715	-	715	-
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	4,900	-	4,900	-
OFFICE OF THE SECRETARY	900	-	900	-
PENSION BENEFIT GUARANTEE CORPORATION	1,132	-	295	837

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TABLE C-4. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY
AND CHARACTER OF WORK: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
DEPARTMENT OF STATE, TOTAL	1,549	-	1,549	-
DEPARTMENTAL FUNDS	1,549	-	1,549	-
DEPARTMENT OF TRANSPORTATION, TOTAL	310,083	1,000	65,685	243,398
COAST GUARD	19,988	-	1,650	18,338
FEDERAL AVIATION ADMINISTRATION	94,300	-	7,000	87,300
FEDERAL HIGHWAY ADMINISTRATION	40,300	-	5,300	35,000
FEDERAL RAILROAD ADMINISTRATION	18,200	-	3,100	15,100
MARITIME ADMINISTRATION	11,110	1,000	5,600	4,510
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	55,400	-	21,300	34,100
OFFICE OF THE SECRETARY	3,304	-	260	3,044
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION	6,100	-	2,100	4,000
URBAN MASS TRANSPORTATION ADMINISTRATION	61,381	-	19,375	42,006
DEPARTMENT OF THE TREASURY, TOTAL	13,323	2,196	5,949	5,178
BUREAU OF ENGRAVING AND PRINTING	4,803	-	2,821	1,982
INTERNAL REVENUE SERVICE	5,395	2,196	3,080	119
UNITED STATES CUSTOMS SERVICE	3,125	-	48	3,077
OTHER AGENCIES				
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	2,033	-	2,033	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	199,911	-	127,904	72,007
APPALACHIAN REGIONAL COMMISSION	400	-	300	100
CONSUMER PRODUCT SAFETY COMMISSION	199	-	56	143
ENVIRONMENTAL PROTECTION AGENCY	335,089	32,087	210,692	91,710
FEDERAL COMMUNICATIONS COMMISSION	1,244	-	1,244	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	9,212	1,438	7,774	-
FEDERAL HOME LOAN BANK BOARD	2,701	-	2,701	-
FEDERAL TRADE COMMISSION	1,188	1,009	179	-
GENERAL SERVICES ADMINISTRATION	1,009	-	537	472
INTERNATIONAL TRADE COMMISSION	3,764	-	3,764	-
LIBRARY OF CONGRESS	5,712	148	712	4,852
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	3,077,859	535,733	871,407	1,670,719
NATIONAL SCIENCE FOUNDATION	975,327	916,078	57,087	2,162
NUCLEAR REGULATORY COMMISSION	220,287	-	220,287	-
SMITHSONIAN INSTITUTION	52,357	52,357	-	-
TENNESSEE VALLEY AUTHORITY	85,000	4,600	8,100	72,300
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	1,902	-	1,271	631
UNITED STATES INFORMATION AGENCY	99	-	-	99
VETERANS ADMINISTRATION	137,300	12,900	110,100	14,300

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-5. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY
AND CHARACTER OF WORK: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
TOTAL, ALL AGENCIES	38,710,072	6,086,013	8,068,315	24,555,744
DEPARTMENTS				
DEPARTMENT OF AGRICULTURE, TOTAL	852,868	363,312	459,153	30,403
AGRICULTURAL COOPERATIVE SERVICE	1,716	-	1,716	-
AGRICULTURAL MARKETING SERVICE	1,543	-	1,250	293
AGRICULTURAL RESEARCH SERVICE	444,988	217,070	202,265	25,653
COOPERATIVE STATE RESEARCH SERVICE	234,949	97,641	137,308	-
ECONOMIC RESEARCH SERVICE	38,964	3,896	35,068	-
FOREST SERVICE	105,021	37,808	63,538	3,675
HUMAN NUTRITION INFORMATION SERVICE	8,200	-	8,200	-
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	8,802	3,873	4,225	704
OFFICE OF TRANSPORTATION	785	424	283	78
STATISTICAL REPORTING SERVICE	7,900	2,600	5,300	-
DEPARTMENT OF COMMERCE, TOTAL	338,617	17,961	262,166	58,490
BUREAU OF THE CENSUS	4,385	540	1,690	2,155
ECONOMIC DEVELOPMENT ADMINISTRATION	10,000	-	2,000	8,000
NATIONAL BUREAU OF STANDARDS	93,609	17,221	62,859	13,529
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	220,523	-	187,417	33,106
NATIONAL TELECOMMUNICATIONS & INFORMATION ADMIN	8,900	-	7,900	1,000
OFFICE OF THE SECRETARY	500	200	300	-
PATENT AND TRADEMARK OFFICE	700	-	-	700
DEPARTMENT OF DEFENSE, TOTAL	23,125,122	769,834	2,391,690	19,963,598
DEPARTMENT OF THE ARMY	3,965,015	194,977	457,972	3,312,066
DEPARTMENT OF THE NAVY	6,043,681	314,000	507,900	5,221,781
DEPARTMENT OF THE AIR FORCE	10,937,300	157,600	499,000	10,280,700
DEFENSE AGENCIES	2,115,279	103,257	926,818	1,085,204
DIRECTOR OF TEST & EVALUATION, DEFENSE	63,847	-	-	63,847
DEPARTMENT OF EDUCATION	145,366	14,606	63,488	67,272
DEPARTMENT OF ENERGY	4,605,420	717,068	1,251,532	2,636,820
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	4,326,704	2,388,397	1,584,345	353,962
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	284,104	137,332	145,081	1,691
CENTERS FOR DISEASE CONTROL	71,566	-	71,566	-
FOOD & DRUG ADMINISTRATION	76,600	-	76,600	-
HEALTH CARE FINANCING ADMINISTRATION	30,000	-	30,000	-
HEALTH RESOURCES AND SERVICES ADMIN	9,850	600	7,750	1,500
HUMAN DEVELOPMENT SERVICES	24,996	435	6,928	17,633
NATIONAL INSTITUTES OF HEALTH	3,773,664	2,243,944	1,199,380	330,340
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	16,916	6,086	8,532	2,298
OFFICE OF THE SECRETARY	14,718	-	14,218	500
SOCIAL SECURITY ADMINISTRATION	24,290	-	24,290	-
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	31,942	-	11,936	20,006
DEPARTMENT OF THE INTERIOR, TOTAL	397,143	100,021	268,739	28,383
BUREAU OF LAND MANAGEMENT	6,607	-	1,947	4,660
BUREAU OF MINES	104,669	27,758	66,078	10,833
BUREAU OF RECLAMATION	9,806	90	8,850	866
GEOLOGICAL SURVEY	150,290	59,993	90,297	-
MINERAL MANAGEMENT SERVICE	1,500	-	1,500	-
NATIONAL PARK SERVICE	11,806	-	11,806	-
OFFICE OF THE SECRETARY	6,770	6,770	-	-
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT	1,478	-	1,478	-
OFFICE OF WATER RESEARCH & TECHNOLOGY	7,217	1,600	4,417	1,200
UNITED STATES FISH AND WILDLIFE SERVICE	97,000	3,810	82,366	10,824
DEPARTMENT OF JUSTICE, TOTAL	35,364	4,176	19,653	11,535
DRUG ENFORCEMENT ADMINISTRATION	2,600	-	800	1,800
FEDERAL BUREAU OF INVESTIGATION	1,099	-	-	1,099
FEDERAL PRISON SYSTEM	2,100	-	1,100	1,000
IMMIGRATION AND NATURALIZATION SERVICE	1,227	-	350	877
OFFICE OF JUSTICE ASSISTANCE, RESEARCH, AND STATISTICS	27,538	4,176	16,811	6,551
OFFICE OF LEGAL POLICY	800	-	592	208
DEPARTMENT OF LABOR, TOTAL	18,017	3,837	12,032	2,148
BUREAU OF LABOR STATISTICS	315	-	315	-
EMPLOYMENT STANDARDS ADMINISTRATION	2,000	-	2,000	-
EMPLOYMENT AND TRAINING ADMINISTRATION	7,229	3,837	1,997	1,395
LABOR-MANAGEMENT SERVICES ADMINISTRATION	751	-	751	-
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	5,700	-	5,700	-
OFFICE OF THE SECRETARY	1,000	-	1,000	-
PENSION BENEFIT GUARANTEE CORPORATION	1,022	-	269	753

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TABLE C-5. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY
AND CHARACTER OF WORK: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
DEPARTMENT OF STATE, TOTAL	1,596	-	1,596	-
DEPARTMENTAL FUNDS	1,596	-	1,596	-
DEPARTMENT OF TRANSPORTATION, TOTAL	394,456	1,400	77,197	315,859
COAST GUARD	20,000	300	1,350	18,350
FEDERAL AVIATION ADMINISTRATION	142,600	-	12,500	130,100
FEDERAL HIGHWAY ADMINISTRATION	53,900	-	7,100	46,800
FEDERAL RAILROAD ADMINISTRATION	29,500	-	5,100	24,400
MARITIME ADMINISTRATION	17,250	1,100	7,550	8,600
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	59,200	-	22,800	36,400
OFFICE OF THE SECRETARY	5,586	-	263	5,323
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION	7,300	-	2,500	4,800
URBAN MASS TRANSPORTATION ADMINISTRATION	59,120	-	18,034	41,086
DEPARTMENT OF THE TREASURY, TOTAL	16,109	3,323	7,922	4,864
BUREAU OF ENGRAVING AND PRINTING	5,049	-	2,970	2,079
INTERNAL REVENUE SERVICE	8,395	3,323	4,952	120
OFFICE OF PROTECTIVE RESEARCH	45	-	-	45
UNITED STATES CUSTOMS SERVICE	2,620	-	-	2,620
OTHER AGENCIES				
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	1,956	-	1,956	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	175,186	-	117,287	57,899
APPALACHIAN REGIONAL COMMISSION	300	-	300	-
CONSUMER PRODUCT SAFETY COMMISSION	493	-	302	191
ENVIRONMENTAL PROTECTION AGENCY	240,794	20,707	153,187	66,900
FEDERAL COMMUNICATIONS COMMISSION	1,212	-	1,212	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	3,675	-	3,675	-
FEDERAL HOME LOAN BANK BOARD	2,988	-	2,988	-
FEDERAL TRADE COMMISSION	1,739	1,478	261	-
GENERAL SERVICES ADMINISTRATION	698	-	445	253
INTERNATIONAL TRADE COMMISSION	3,989	-	3,989	-
LIBRARY OF CONGRESS	5,952	251	870	4,831
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	2,415,950	604,664	956,871	854,415
NATIONAL SCIENCE FOUNDATION	1,060,200	998,529	61,671	-
NUCLEAR REGULATORY COMMISSION	209,500	-	209,500	-
SMITHSONIAN INSTITUTION	55,749	55,749	-	-
TENNESSEE VALLEY AUTHORITY	74,900	5,500	10,000	59,400
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	1,152	-	1,152	-
UNITED STATES INFORMATION AGENCY	2,215	-	-	2,215
VETERANS ADMINISTRATION	162,700	15,200	131,200	16,300

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-6. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY
AND CHARACTER OF WORK: FISCAL YEAR 1984 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
TOTAL, ALL AGENCIES	45,496,998	6,615,380	8,047,859	30,833,759
DEPARTMENTS				
DEPARTMENT OF AGRICULTURE, TOTAL	848,358	380,817	438,081	29,460
AGRICULTURAL COOPERATIVE SERVICE	1,360	-	1,360	-
AGRICULTURAL RESEARCH SERVICE	456,318	235,857	194,709	25,752
COOPERATIVE STATE RESEARCH SERVICE	221,715	95,580	126,135	-
ECONOMIC RESEARCH SERVICE	45,024	4,502	40,522	-
FOREST SERVICE	100,766	38,309	59,435	3,022
HUMAN NUTRITION INFORMATION SERVICE	6,600	-	6,600	-
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	7,542	3,319	3,620	603
OFFICE OF TRANSPORTATION	833	450	300	83
STATISTICAL REPORTING SERVICE	8,200	2,800	5,400	-
DEPARTMENT OF COMMERCE, TOTAL	234,261	16,489	183,204	34,568
BUREAU OF THE CENSUS	4,490	542	1,735	2,213
NATIONAL BUREAU OF STANDARDS	77,951	15,697	55,105	7,149
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	142,120	-	118,614	23,506
NATIONAL TELECOMMUNICATIONS & INFORMATION ADMIN	8,300	-	7,300	1,000
OFFICE OF THE SECRETARY	700	250	450	-
PATENT AND TRADEMARK OFFICE	700	-	-	700
DEPARTMENT OF DEFENSE, TOTAL	29,735,527	868,473	2,703,706	26,163,348
DEPARTMENT OF THE ARMY	4,904,113	220,374	525,539	4,158,200
DEPARTMENT OF THE NAVY	8,063,335	330,200	552,800	7,180,335
DEPARTMENT OF THE AIR FORCE	13,863,958	206,600	526,000	13,131,358
DEFENSE AGENCIES	2,847,783	111,299	1,099,367	1,637,117
DIRECTOR OF TEST & EVALUATION, DEFENSE	56,338	-	-	56,338
DEPARTMENT OF EDUCATION	126,251	12,837	58,352	55,062
DEPARTMENT OF ENERGY	4,516,840	800,783	1,029,825	2,686,232
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	4,434,797	2,468,104	1,625,594	341,099
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	320,787	154,504	164,358	1,925
CENTERS FOR DISEASE CONTROL	76,757	-	76,757	-
FOOD & DRUG ADMINISTRATION	82,100	-	82,100	-
HEALTH CARE FINANCING ADMINISTRATION	30,000	-	30,000	-
HEALTH RESOURCES AND SERVICES ADMIN	1,200	600	600	-
HUMAN DEVELOPMENT SERVICES	11,945	935	5,020	5,990
NATIONAL INSTITUTES OF HEALTH	3,853,186	2,305,135	1,217,673	330,378
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	18,549	6,930	9,313	2,306
OFFICE OF THE SECRETARY	11,000	-	10,500	500
SOCIAL SECURITY ADMINISTRATION	29,273	-	29,273	-
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	27,172	-	10,089	17,083
DEPARTMENT OF THE INTERIOR, TOTAL	327,790	89,724	220,724	17,342
BUREAU OF LAND MANAGEMENT	6,700	-	1,800	4,900
BUREAU OF MINES	67,905	29,601	35,752	2,552
BUREAU OF RECLAMATION	9,958	235	9,413	310
GEOLOGICAL SURVEY	136,037	55,001	81,036	-
MINERAL MANAGEMENT SERVICE	1,500	-	1,500	-
NATIONAL PARK SERVICE	12,500	-	12,500	-
OFFICE OF THE SECRETARY	1,620	1,620	-	-
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT	970	-	970	-
UNITED STATES FISH AND WILDLIFE SERVICE	90,600	3,267	77,753	9,580
DEPARTMENT OF JUSTICE, TOTAL	23,724	2,404	12,041	9,281
DRUG ENFORCEMENT ADMINISTRATION	2,300	-	800	1,500
FEDERAL BUREAU OF INVESTIGATION	2,599	-	-	2,599
FEDERAL PRISON SYSTEM	1,600	-	850	750
IMMIGRATION AND NATURALIZATION SERVICE	500	-	250	250
OFFICE OF JUSTICE ASSISTANCE, RESEARCH, AND STATISTICS	16,027	2,404	9,616	4,007
OFFICE OF LEGAL POLICY	700	-	525	175
DEPARTMENT OF LABOR, TOTAL	19,595	4,414	12,856	2,325
BUREAU OF LABOR STATISTICS	377	-	377	-
EMPLOYMENT STANDARDS ADMINISTRATION	1,250	-	1,250	-
EMPLOYMENT AND TRAINING ADMINISTRATION	8,280	4,414	2,261	1,605
LABOR-MANAGEMENT SERVICES ADMINISTRATION	1,786	-	1,786	-
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	5,700	-	5,700	-
OFFICE OF THE SECRETARY	1,200	-	1,200	-
PENSION BENEFIT GUARANTEE CORPORATION	1,002	-	282	720

CONTINUED ON NEXT PAGE

TABLE C-6. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY
AND CHARACTER OF WORK: FISCAL YEAR 1984 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
DEPARTMENT OF STATE, TOTAL	1,608	-	1,608	-
DEPARTMENTAL FUNDS	1,608	-	1,608	-
DEPARTMENT OF TRANSPORTATION, TOTAL	519,956	1,550	79,636	438,770
COAST GUARD	22,000	350	3,500	18,150
FEDERAL AVIATION ADMINISTRATION	303,900	-	23,200	280,700
FEDERAL HIGHWAY ADMINISTRATION	48,700	-	6,400	42,300
FEDERAL RAILROAD ADMINISTRATION	17,000	-	2,900	14,100
MARITIME ADMINISTRATION	13,000	1,200	5,300	6,500
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	57,000	-	22,400	34,600
OFFICE OF THE SECRETARY	7,256	-	471	6,785
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION	5,600	-	1,800	3,800
URBAN MASS TRANSPORTATION ADMINISTRATION	45,500	-	13,665	31,835
DEPARTMENT OF THE TREASURY, TOTAL	16,426	3,657	7,988	4,781
BUREAU OF ENGRAVING AND PRINTING	5,117	-	3,015	2,102
INTERNAL REVENUE SERVICE	8,719	3,657	4,973	89
OFFICE OF PROTECTIVE RESEARCH	40	-	-	40
UNITED STATES CUSTOMS SERVICE	2,550	-	-	2,550
OTHER AGENCIES				
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	2,036	-	2,036	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	206,502	-	140,645	65,857
CONSUMER PRODUCT SAFETY COMMISSION	471	-	107	364
ENVIRONMENTAL PROTECTION AGENCY	207,731	17,408	131,223	59,100
FEDERAL COMMUNICATIONS COMMISSION	1,002	-	1,002	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	13,000	-	13,000	-
FEDERAL HOME LOAN BANK BOARD	3,103	-	3,103	-
FEDERAL TRADE COMMISSION	1,688	1,435	253	-
GENERAL SERVICES ADMINISTRATION	1,826	-	1,200	626
INTERNATIONAL TRADE COMMISSION	4,385	-	4,385	-
LIBRARY OF CONGRESS	6,023	284	919	4,820
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	2,462,500	681,521	965,359	815,620
NATIONAL SCIENCE FOUNDATION	1,240,465	1,181,062	59,403	-
NUCLEAR REGULATORY COMMISSION	199,740	-	199,740	-
SMITHSONIAN INSTITUTION	63,618	63,618	-	-
TENNESSEE VALLEY AUTHORITY	78,300	5,700	7,500	65,100
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	6,080	-	6,080	-
UNITED STATES INFORMATION AGENCY	6,421	-	-	6,421
VETERANS ADMINISTRATION	159,800	15,100	128,200	16,500

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-7. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1982

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							FOREIGN
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	36,432.6	9,141.0	17,192.2	1,506.4	4,605.5	1,976.7	1,091.7	520.6	184.3	214.3
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	797.3	531.4	2.5	.1	255.0	.1	3.0	-	2.0	2.1
AGRICULTURAL COOPERATIVE SERVICE ...	1.7	1.5	-	-	.3	-	-	-	-	-
AGRICULTURAL MARKETING SERVICE	1.2	1.2	-	-	.1	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	404.9	369.1	-	-	33.0	-	.8	-	1.2	.8
COOPERATIVE STATE RESEARCH SERVICE ..	219.0	7.7	-	.1	208.4	.1	1.3	-	1.4	-
ECONOMIC RESEARCH SERVICE	39.3	37.8	-	-	1.5	-	-	-	-	-
FOREST SERVICE	112.1	101.3	.4	-	9.8	-	.2	-	.4	.1
HUMAN NUTRITION INFORMATION SERVICE	8.5	4.1	2.1	-	1.5	-	.8	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	2.6	1.4	-	-	-	-	-	-	-	1.2
OFFICE OF TRANSPORTATION	.9	.9	-	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	7.0	6.6	-	-	.4	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	336.3	241.8	20.5	-	51.3	1.0	14.2	.1	7.2	.3
BUREAU OF THE CENSUS	3.8	3.6	-	-	.1	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	9.6	.6	.1	-	3.8	-	3.5	-	1.6	-
NATIONAL BUREAU OF STANDARDS	88.8	83.3	3.2	-	2.0	.2	.3	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	222.0	142.2	17.2	-	45.3	.8	10.5	.1	5.6	.2
NAT'L TELECOMM & INFORMATION ADMIN ..	11.3	11.3	-	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	.4	.4	-	-	-	-	-	-	-	-
PATENT AND TRADEMARK OFFICE	.7	.7	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	20,622.6	5,139.2	13,794.5	148.3	663.6	226.2	188.5	385.0	.2	77.0
DEPARTMENT OF THE ARMY	3,760.5	1,433.5	2,147.9	2.8	90.0	38.5	26.9	9.6	.2	11.1
DEPARTMENT OF THE NAVY	5,845.1	1,598.5	3,712.6	137.6	251.3	26.9	57.6	6.6	-	53.9
DEPARTMENT OF THE AIR FORCE	9,357.9	1,584.2	7,005.9	-	268.7	92.5	71.3	326.1	-	9.1
DEFENSE AGENCIES	1,618.1	489.5	925.6	7.9	53.1	68.4	32.7	38.1	-	2.9
DIRECTOR OF TEST & EVALUATION, DEFENSE	41.0	33.5	2.5	-	.5	-	-	4.6	-	-
DEPARTMENT OF EDUCATION	128.0	18.9	4.3	-	66.9	-	32.8	-	2.9	2.1
DEPARTMENT OF ENERGY	4,708.2	175.6	1,450.7	1,193.8	277.1	1,438.7	46.1	113.8	.9	11.4
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	3,940.7	946.4	123.0	29.0	2,175.9	18.8	560.2	.3	60.5	26.6
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	248.1	89.7	4.5	-	113.8	.1	32.8	-	6.3	1.0
CENTERS FOR DISEASE CONTROL	75.0	54.2	7.0	-	7.1	-	6.4	-	.1	.2
FOOD & DRUG ADMINISTRATION	73.0	64.6	-	-	4.3	-	4.0	-	-	.1
HEALTH CARE FINANCING ADMIN	29.1	1.5	9.1	-	5.3	-	7.7	-	5.4	-
HEALTH RESOURCES AND SERVICES ADMINISTRATION	10.1	1.3	-	-	5.8	-	1.3	-	1.7	-
HUMAN DEVELOPMENT SERVICES	27.2	2.9	5.5	-	5.8	-	9.0	-	3.9	-
NATIONAL INSTITUTES OF HEALTH	3,433.1	709.1	93.0	29.0	2,026.0	18.7	492.7	.3	39.2	25.1
OFFICE OF ASST'T SECY FOR HEALTH	16.1	8.2	2.1	-	5.2	-	.6	-	-	.1
OFFICE OF THE SECRETARY	13.4	2.5	1.5	-	1.2	-	5.7	-	2.5	-
SOCIAL SECURITY ADMINISTRATION	15.5	12.4	.4	-	1.2	-	.2	-	1.3	.1
DEPT OF HOUSING & URBAN DEVELOPMENT ..	28.9	17.2	5.7	-	1.0	-	4.5	-	.6	-
DEPARTMENT OF THE INTERIOR, TOTAL	381.1	261.0	28.9	.3	34.1	.1	2.5	.2	53.6	.4
BUREAU OF LAND MANAGEMENT	5.3	3.4	-	-	1.7	-	.2	-	-	-
BUREAU OF MINES	94.7	61.1	19.5	-	11.7	.1	2.2	-	.2	-
BUREAU OF RECLAMATION	10.1	6.4	1.3	-	2.0	-	-	.1	.2	-
GEOLOGICAL SURVEY	152.6	139.4	4.3	.2	8.5	-	-	.2	-	-
NATIONAL PARK SERVICE	11.2	9.4	-	.1	1.7	-	.1	-	-	-
OFFICE OF THE SECRETARY	.5	.5	-	-	-	-	-	-	-	.4
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1.5	1.0	.4	-	.1	-	-	-	.1	-
OFFICE OF WATER RSCH & TECHNOLOGY ..	11.4	2.0	2.8	-	6.5	-	-	-	-	-
US FISH & WILDLIFE SERVICE	93.9	38.3	.5	-	2.0	-	-	-	53.1	-
DEPARTMENT OF JUSTICE, TOTAL	26.7	3.5	7.1	-	6.0	-	9.2	-	1.0	-
DRUG ENFORCEMENT ADMINISTRATION	3.2	.8	2.4	-	-	-	-	-	-	-
FEDERAL BUREAU OF INVESTIGATION	2.7	.3	2.5	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	1.7	.9	-	-	.2	-	.3	-	.3	-
IMMIGRATION & NATURALIZATION SVC	.6	.1	.5	-	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	18.0	1.4	1.6	-	5.6	-	8.8	-	.7	-
OFFICE OF LEGAL POLICY	.4	.4	.1	-	.2	-	.1	-	-	-
DEPARTMENT OF LABOR, TOTAL	25.4	6.1	5.1	-	8.4	.5	5.3	-	.1	-
BUREAU OF LABOR STATISTICS	.3	.3	-	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	1.4	1.2	-	-	.2	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	16.1	2.0	.1	-	8.1	.5	5.3	-	.1	-
LABOR-MANAGEMENT SERVICES ADMIN	0.7	0.7	-	-	-	-	-	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN ..	4.9	1.0	3.9	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	.9	.9	-	-	-	-	-	-	-	-
PENSION BENEFIT GUARANTEE CORPORATION	1.1	.1	1.0	-	-	-	-	-	-	-

CONTINUED ON NEXT PAGE

TABLE C-7. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1982

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA- MURAL 1/	EXTRAMURAL							FOREIGN
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS- TRIAL FIRMS	UNIVER- SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON- PROFIT INSTI- TUTIONS	FFRDCS ADMIN BY NON- PROFIT INSTI- TUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF STATE, TOTAL	1.5	.8	.6	0.1	*	-	*	-	-	-
DEPARTMENTAL FUNDS	1.5	.8	.6	.1	*	-	*	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	310.1	75.7	155.1	-	18.6	4.0	17.9	-	38.9	-
COAST GUARD	20.0	10.9	9.0	-	*	.1	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	94.3	22.5	58.3	-	.3	3.6	9.7	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	40.3	1.8	10.6	-	8.0	.2	1.9	-	17.7	-
FEDERAL RAILROAD ADMINISTRATION	18.2	8.8	9.1	-	-	-	.4	-	-	-
MARITIME ADMINISTRATION	11.1	1.5	7.9	-	.6	-	.8	-	.3	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	55.4	11.2	31.7	-	4.0	-	3.2	-	5.3	-
OFFICE OF THE SECRETARY	3.3	2.8	.5	-	-	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	6.1	4.3	1.2	-	.6	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	61.4	11.9	26.9	-	5.1	-	1.9	-	15.5	-
DEPARTMENT OF THE TREASURY, TOTAL	13.3	7.9	5.3	*	*	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING ...	4.8	2.8	2.0	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	5.4	5.0	.4	-	*	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	3.1	.2	2.9	*	-	-	-	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	2.0	2.0	-	-	-	-	-	-	-	-
AGENCY FOR INTERNAT'L DEVELOPMENT	199.9	13.5	18.6	-	69.6	-	9.7	-	-	88.5
APPALACHIAN REGIONAL COMMISSION	.4	.1	.2	-	-	-	-	-	.2	-
CONSUMER PRODUCT SAFETY COMMISSION ...	.2	.2	-	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	335.1	129.5	102.6	-	67.8	-	23.7	-	11.5	-
FEDERAL COMMUNICATIONS COMMISSION	1.2	1.1	.1	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	9.2	3.8	2.3	-	1.4	.9	.8	-	-	-
FEDERAL HOME LOAN BANK BOARD	2.7	2.6	.1	-	*	-	-	-	-	-
FEDERAL TRADE COMMISSION	1.2	1.2	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	1.0	1.0	-	-	-	-	-	-	-	-
INTERNATIONAL TRADE COMMISSION	3.8	3.8	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	5.7	5.3	.4	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	3,077.9	1,165.6	1,432.6	-	185.6	182.5	104.5	0.4	2.4	4.2
NATIONAL SCIENCE FOUNDATION	975.3	118.3	25.4	2.4	715.0	72.1	39.9	.3	1.2	.8
NUCLEAR REGULATORY COMMISSION	220.3	20.9	5.5	132.2	6.4	31.8	2.3	20.4	.1	.8
SMITHSONIAN INSTITUTION	52.4	52.4	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	85.0	59.2	-	-	-	-	25.8	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	1.9	.2	.9	.2	.1	*	.3	*	-	-
UNITED STATES INFORMATION AGENCY	.1	.1	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	137.3	135.0	.2	-	1.6	-	.4	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

* INDICATES AMOUNT LESS THAN \$50,000.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-8. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1983 (ESTIMATED)

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	38,710.1	10,228.3	17,729.3	1,525.1	4,996.1	2,088.9	1,176.7	568.1	210.0	187.6
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	852.9	566.9	1.4	-	271.5	-	1.8	-	3.1	8.3
AGRICULTURAL COOPERATIVE SERVICE ...	1.7	1.4	-	-	.3	-	-	-	-	-
AGRICULTURAL MARKETING SERVICE	1.5	1.5	-	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	445.0	406.2	-	-	36.0	-	.8	-	1.2	.8
COOPERATIVE STATE RESEARCH SERVICE ..	234.9	7.1	-	-	226.4	-	-	-	1.4	-
ECONOMIC RESEARCH SERVICE	39.0	38.7	-	-	.3	-	-	-	-	-
FOREST SERVICE	105.0	98.6	.4	-	5.4	-	.2	-	.4	.1
HUMAN NUTRITION INFORMATION SERVICE ..	8.2	3.8	1.0	-	2.6	-	.8	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV ..	8.8	1.4	-	-	-	-	-	-	-	7.4
OFFICE OF TRANSPORTATION	.8	.8	-	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	7.9	7.4	-	-	.5	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	338.6	242.1	23.2	-	50.8	.8	13.8	.1	7.0	.8
BUREAU OF THE CENSUS	4.4	4.0	-	-	.4	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION ..	10.0	.6	.1	-	3.7	-	4.0	-	1.6	-
NATIONAL BUREAU OF STANDARDS	93.6	87.7	3.0	-	2.5	.1	.3	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	220.5	140.2	20.1	-	44.2	.7	9.6	.1	5.4	.3
NAT'L TELECOMM & INFORMATION ADMIN ..	8.9	8.9	-	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	.5	.5	-	-	-	-	-	-	-	.5
PATENT AND TRADEMARK OFFICE	.7	.7	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	23,125.1	6,052.1	15,107.1	170.0	761.4	258.6	253.1	465.8	.2	56.9
DEPARTMENT OF THE ARMY	3,965.0	1,609.2	2,156.3	4.3	99.7	47.7	29.2	11.0	.2	7.3
DEPARTMENT OF THE NAVY	6,043.7	1,766.5	3,708.2	156.1	270.2	30.7	67.4	9.3	-	35.2
DEPARTMENT OF THE AIR FORCE	10,937.3	1,875.5	8,123.2	-	310.7	104.9	115.9	396.0	-	11.0
DEFENSE AGENCIES	2,115.3	742.3	1,117.9	9.5	80.4	75.3	40.5	46.0	-	3.3
DIRECTOR OF TEST & EVALUATION, DEFENSE ..	63.8	58.5	1.5	-	.4	-	-	3.5	-	-
DEPARTMENT OF EDUCATION	145.4	15.2	4.4	-	83.1	-	37.5	-	4.5	.6
DEPARTMENT OF ENERGY	4,605.4	195.1	1,287.5	1,187.5	275.2	1,514.1	58.5	75.8	4.9	6.7
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	4,326.7	1,046.1	139.4	35.8	2,398.1	21.3	589.1	.8	64.5	31.7
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN ..	284.1	109.8	3.2	-	126.4	.1	36.3	-	7.1	1.2
CENTERS FOR DISEASE CONTROL	71.6	54.4	6.4	-	3.6	-	5.9	-	.1	1.2
FOOD & DRUG ADMINISTRATION	76.6	68.6	-	-	4.0	-	3.9	-	-	.1
HEALTH CARE FINANCING ADMIN	30.0	1.6	9.4	-	5.5	-	7.9	-	5.6	-
HEALTH RESOURCES AND SERVICES ADMINISTRATION ..	9.9	4.9	-	-	4.8	-	.2	-	-	-
HUMAN DEVELOPMENT SERVICES	25.0	2.7	4.6	-	4.9	-	9.1	-	3.7	-
NATIONAL INSTITUTES OF HEALTH	3,773.7	780.4	103.9	35.8	2,239.9	21.2	516.9	.8	46.0	28.7
OFFICE OF ASST'T SECY FOR HEALTH	16.9	8.4	2.1	-	5.5	-	.4	-	-	.5
OFFICE OF THE SECRETARY	14.7	2.3	3.2	-	2.5	-	6.7	-	-	-
SOCIAL SECURITY ADMINISTRATION	24.3	13.1	6.4	-	1.1	-	1.8	-	2.0	-
DEPT OF HOUSING & URBAN DEVELOPMENT ..	31.9	17.9	6.5	-	1.0	-	5.9	-	.6	-
DEPARTMENT OF THE INTERIOR, TOTAL	397.1	280.4	22.8	3.1	27.0	-	1.0	.1	62.2	.5
BUREAU OF LAND MANAGEMENT	6.6	5.6	.1	-	.8	-	-	-	-	-
BUREAU OF MINES	104.7	76.6	15.0	2.9	9.4	-	.8	-	-	-
BUREAU OF RECLAMATION	9.8	7.6	.7	-	1.4	-	-	.1	.1	-
GEOLOGICAL SURVEY	150.3	139.3	2.5	-	8.5	-	-	-	-	-
MINERAL MANAGEMENT SERVICE	1.5	.8	.2	.2	.3	-	-	.1	-	-
NATIONAL PARK SERVICE	11.8	9.9	-	-	1.8	-	.2	-	-	-
OFFICE OF THE SECRETARY	6.8	.1	-	-	-	-	-	-	6.2	.5
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1.5	.5	.8	-	.2	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY ..	7.2	1.2	3.1	-	2.9	-	-	-	-	-
US FISH & WILDLIFE SERVICE	97.0	38.9	.5	-	1.7	-	-	-	55.9	-
DEPARTMENT OF JUSTICE, TOTAL	35.4	3.6	5.9	1.1	6.9	.1	15.9	-	1.9	-
DRUG ENFORCEMENT ADMINISTRATION	2.6	.8	1.8	-	-	-	-	-	-	-
FEDERAL BUREAU OF INVESTIGATION	1.1	.3	.8	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	2.1	.9	-	-	.3	-	.3	-	.6	-
IMMIGRATION & NATURALIZATION SVC	1.2	.1	-	1.1	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT ..	27.5	1.5	2.8	-	6.4	-	15.6	-	1.3	-
OFFICE OF LEGAL POLICY	.8	-	.5	-	.2	.1	-	-	-	-
DEPARTMENT OF LABOR, TOTAL	15.0	5.3	7.6	-	3.9	.3	.9	-	.1	-
BUREAU OF LABOR STATISTICS	.3	.3	-	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION ..	2.0	1.0	1.0	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	7.2	1.8	.3	-	3.9	.3	.9	-	.1	-
LABOR-MANAGEMENT SERVICES ADMIN	0.8	0.8	-	-	-	-	-	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN ..	5.7	.4	5.3	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	1.0	1.0	-	-	-	-	-	-	-	-
PENSION BENEFIT GUARANTEE CORPORATION ..	1.0	.1	1.0	-	-	-	-	-	-	-

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TABLE C-8. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1983 (ESTIMATED)

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1	EXTRAMURAL							FOREIGN
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF STATE, TOTAL	1.6	.8	.6	0.1	*	-	0.1	-	-	-
DEPARTMENTAL FUNDS	1.6	.8	.4	.1	*	-	.1	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	394.5	84.2	202.5	-	22.5	4.2	20.6	7.0	53.4	-
COAST GUARD	20.0	10.9	9.0	-	*	.2	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	142.6	34.0	93.1	-	.5	4.1	11.0	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	53.9	2.0	10.0	-	10.6	-	1.9	-	29.4	-
FEDERAL RAILROAD ADMINISTRATION	29.5	9.1	12.6	-	-	-	.7	7.0	-	-
MARITIME ADMINISTRATION	17.3	1.5	12.3	-	.8	-	1.5	-	1.2	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	59.2	8.6	35.7	-	4.3	-	3.8	-	6.8	-
OFFICE OF THE SECRETARY	5.6	2.5	2.9	-	.2	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	7.3	3.3	.9	-	3.2	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	59.1	12.4	26.1	-	2.9	-	1.8	-	16.0	-
DEPARTMENT OF THE TREASURY, TOTAL	16.1	8.4	7.6	-	.1	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING ...	5.0	2.9	2.1	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	8.4	5.3	2.9	-	.1	-	-	-	-	-
OFFICE OF PROTECTIVE RESEARCH	*	*	*	-	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	2.6	.1	2.5	-	-	-	-	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	2.0	2.0	-	-	-	-	-	-	-	-
AGENCY FOR INTERNAT'L DEVELOPMENT	175.2	10.8	13.3	-	68.7	-	6.8	-	-	75.6
APPALACHIAN REGIONAL COMMISSION	.3	*	.1	-	-	-	-	-	.2	-
CONSUMER PRODUCT SAFETY COMMISSION ..	.5	.5	-	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	240.8	103.3	64.8	-	50.1	-	18.4	-	3.5	.7
FEDERAL COMMUNICATIONS COMMISSION	1.2	1.1	.1	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	3.7	.9	1.4	-	.4	.6	.4	-	-	-
FEDERAL HOME LOAN BANK BOARD	3.0	2.8	-	-	.2	-	-	-	-	-
FEDERAL TRADE COMMISSION	1.7	1.7	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	.7	.4	.1	-	-	-	.3	-	-	-
INTERNATIONAL TRADE COMMISSION	4.0	4.0	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	6.0	5.6	.4	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	2,416.0	1,155.4	795.4	-	193.2	182.6	82.0	.4	2.7	4.2
NATIONAL SCIENCE FOUNDATION	1,060.2	130.7	29.9	2.6	775.1	75.7	44.2	.2	1.3	.5
NUCLEAR REGULATORY COMMISSION	209.5	20.9	5.7	124.9	5.8	30.6	2.5	17.9	.1	1.0
SMITHSONIAN INSTITUTION	55.7	55.7	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	74.9	51.6	-	-	-	-	23.3	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY ..	1.2	.1	.7	*	*	.1	.1	.1	-	-
UNITED STATES INFORMATION AGENCY	2.2	1.5	.7	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	162.7	161.0	-	-	1.1	-	.5	-	-	-

1 INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

* INDICATES AMOUNT LESS THAN \$50,000.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-9. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1984 (ESTIMATED)

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							STATE AND LOCAL GOVTS	FOREIGN
			UNITED STATES AND TERRITORIES								
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS			
TOTAL, ALL AGENCIES	45,497.0	10,969.9	22,957.4	1,614.4	5,270.7	2,291.9	1,335.5	683.2	189.1	184.8	
DEPARTMENTS											
DEPARTMENT OF AGRICULTURE, TOTAL	848.4	578.2	1.6	-	257.9	-	1.3	-	2.4	7.0	
AGRICULTURAL COOPERATIVE SERVICE ...	1.4	1.4	-	-	-	-	-	-	-	-	
AGRICULTURAL RESEARCH SERVICE	456.3	416.5	-	-	37.0	-	.8	-	1.2	.8	
COOPERATIVE STATE RESEARCH SERVICE ..	221.7	7.0	-	-	214.0	-	-	-	.8	-	
ECONOMIC RESEARCH SERVICE	45.0	44.7	-	-	.3	-	-	-	-	-	
FOREST SERVICE	100.8	94.9	.3	-	4.9	-	.2	-	.4	.1	
HUMAN NUTRITION INFORMATION SERVICE	6.6	3.8	1.3	-	1.2	-	.3	-	-	-	
OFF OF INTERNAT'L COOPERATION & DEV	7.5	1.4	-	-	-	-	-	-	-	6.1	
OFFICE OF TRANSPORTATION	.8	.8	-	-	-	-	-	-	-	-	
STATISTICAL REPORTING SERVICE	8.2	7.7	-	-	.5	-	-	-	-	-	
DEPARTMENT OF COMMERCE, TOTAL	234.3	193.7	13.5	-	19.7	.7	4.6	.1	1.2	.8	
BUREAU OF THE CENSUS	4.5	4.1	-	-	.4	-	-	-	-	-	
NATIONAL BUREAU OF STANDARDS	78.0	74.7	1.4	-	1.9	-	-	-	-	-	
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	142.1	105.9	12.1	-	17.4	.7	4.6	.1	1.2	.1	
NAT'L TELECOMM & INFORMATION ADMIN ..	8.3	8.3	-	-	-	-	-	-	-	-	
OFFICE OF THE SECRETARY	.7	.7	-	-	-	-	-	-	-	.7	
PATENT AND TRADEMARK OFFICE	.7	.7	-	-	-	-	-	-	-	-	
DEPARTMENT OF DEFENSE, TOTAL	29,735.5	6,881.3	20,412.2	188.1	865.3	308.9	439.7	589.7	.2	50.3	
DEPARTMENT OF THE ARMY	4,904.1	1,985.6	2,665.3	9.0	109.1	71.3	40.4	14.6	.2	8.7	
DEPARTMENT OF THE NAVY	8,063.3	1,888.6	5,414.2	172.1	296.5	34.0	211.2	16.0	-	30.7	
DEPARTMENT OF THE AIR FORCE	13,864.0	1,795.9	10,939.7	-	356.2	112.4	151.1	500.6	-	8.1	
DEFENSE AGENCIES	2,847.8	1,161.2	1,391.3	7.0	103.1	91.2	36.9	54.2	-	2.7	
DIRECTOR OF TEST & EVALUATION, DEFENSE	56.3	50.0	1.7	-	.4	-	-	4.3	-	-	
DEPARTMENT OF EDUCATION	126.3	14.5	3.8	-	70.8	-	33.6	-	2.8	.7	
DEPARTMENT OF ENERGY	4,516.8	148.4	1,056.0	1,258.5	286.8	1,625.9	54.3	74.9	11.3	.8	
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	4,434.8	1,075.5	140.8	36.4	2,464.5	29.2	589.9	.5	64.6	33.3	
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	320.8	115.3	3.6	-	149.3	.1	42.9	-	8.2	1.4	
CENTERS FOR DISEASE CONTROL	76.8	57.8	8.0	-	1.9	-	7.3	-	.1	1.8	
FOOD & DRUG ADMINISTRATION	82.1	73.8	-	-	5.0	-	3.2	-	-	.1	
HEALTH CARE FINANCING ADMIN	30.0	1.6	9.4	-	5.5	7.9	-	-	5.6	-	
HEALTH RESOURCES AND SERVICES ADMINISTRATION	1.2	1.2	-	-	-	-	-	-	-	-	
HUMAN DEVELOPMENT SERVICES	11.9	1.3	.7	-	.2	-	6.5	-	3.3	.8	
NATIONAL INSTITUTES OF HEALTH	3,853.2	797.3	106.8	36.4	2,295.3	21.2	521.3	.5	45.3	29.1	
OFFICE OF ASST'T SECY FOR HEALTH	18.5	9.0	2.3	-	5.5	-	.9	-	-	.9	
OFFICE OF THE SECRETARY	11.0	2.1	2.7	-	1.2	-	5.0	-	-	-	
SOCIAL SECURITY ADMINISTRATION	29.3	16.2	7.4	-	.7	-	3.0	-	2.1	-	
DEPT OF HOUSING & URBAN DEVELOPMENT ..	27.2	15.2	5.5	-	.9	-	5.0	-	.5	-	
DEPARTMENT OF THE INTERIOR, TOTAL	327.8	240.1	10.0	2.9	14.2	-	.7	.1	58.4	1.5	
BUREAU OF LAND MANAGEMENT	6.7	5.4	.2	-	1.0	-	-	-	.8	-	
BUREAU OF MINES	67.9	58.4	5.8	2.7	.5	-	.5	-	-	-	
BUREAU OF RECLAMATION	10.0	7.3	1.4	-	1.2	-	-	.1	.8	-	
GEOLOGICAL SURVEY	136.0	127.3	1.7	-	7.0	-	-	-	-	-	
MINERAL MANAGEMENT SERVICE	1.5	.8	.2	.2	.3	-	-	.1	-	-	
NATIONAL PARK SERVICE	12.5	9.8	.1	-	2.5	-	.2	-	-	-	
OFFICE OF THE SECRETARY	1.6	.1	-	-	-	-	-	-	-	1.5	
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1.0	.6	.3	-	.8	-	-	-	.8	-	
US FISH & WILDLIFE SERVICE	90.6	30.4	.3	-	1.7	-	-	-	58.3	-	
DEPARTMENT OF JUSTICE, TOTAL	23.7	3.1	7.0	-	4.4	-	7.9	-	1.3	-	
DRUG ENFORCEMENT ADMINISTRATION	2.3	.6	1.7	-	-	-	-	-	-	-	
FEDERAL BUREAU OF INVESTIGATION	2.6	.3	2.3	-	-	-	-	-	-	-	
FEDERAL PRISON SYSTEM	1.6	.9	-	-	.2	-	.2	-	.3	-	
IMMIGRATION & NATURALIZATION SVC	.5	.1	.4	-	-	-	-	-	-	-	
OFF OF JUSTICE ASSIST, RSCH, & STAT	16.0	1.2	2.3	-	4.0	-	7.6	-	1.0	-	
OFFICE OF LEGAL POLICY	.7	.8	.3	-	.2	-	.2	-	-	-	
DEPARTMENT OF LABOR, TOTAL	19.6	5.6	7.1	-	3.2	.3	1.3	-	.1	-	
BUREAU OF LABOR STATISTICS	.4	.4	-	-	-	-	-	-	-	-	
EMPLOYMENT STANDARDS ADMINISTRATION ..	1.3	1.1	.2	-	-	-	-	-	-	-	
EMPLOYMENT & TRAINING ADMIN	8.3	1.8	.4	-	4.6	.3	1.1	-	.1	-	
LABOR-MANAGEMENT SERVICES ADMIN	1.8	0.8	0.3	-	0.6	-	0.2	-	-	-	
OCCUPATIONAL SAFETY & HEALTH ADMIN ..	5.7	.4	5.3	-	-	-	-	-	-	-	
OFFICE OF THE SECRETARY	1.2	1.2	-	-	-	-	-	-	-	-	
PENSION BENEFIT GUARANTEE CORPORATION	1.0	.1	.9	-	-	-	-	-	-	-	

CONTINUED ON NEXT PAGE

TABLE C-9. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1984 (ESTIMATED)

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA- MURAL 1/	EXTRAMURAL UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDGS ADMIN BY INDUS- TRIAL FIRMS	UNIVER- SITIES AND COLLEGES	FFRDGS ADMIN BY UNIVS AND COLLEGES	OTHER NON- PROFIT INSTI- TUTIONS	FFRDGS ADMIN BY NON- PROFIT INSTI- TUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF STATE, TOTAL	1.6	.8	.6	0.1	*	-	.1	-	-	-
DEPARTMENTAL FUNDS	1.6	.8	.6	.1	*	-	.1	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	520.0	82.0	347.3	-	19.0	4.7	20.6	4.0	42.2	-
COAST GUARD	22.0	11.9	9.9	-	*	.2	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	303.9	38.2	248.2	-	.7	4.5	12.2	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	48.7	1.1	13.0	-	9.6	-	2.2	-	22.9	-
FEDERAL RAILROAD ADMINISTRATION	17.0	5.2	7.3	-	-	-	.4	4.0	-	-
MARITIME ADMINISTRATION	13.0	1.0	9.9	-	.6	-	.8	-	.7	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	57.0	8.4	34.4	-	4.2	-	3.6	-	6.4	-
OFFICE OF THE SECRETARY	7.3	3.4	3.7	-	.2	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	5.6	3.2	.9	-	1.5	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	45.5	9.6	20.0	-	2.3	-	1.4	-	12.3	-
DEPARTMENT OF THE TREASURY, TOTAL	16.4	8.1	8.2	-	.2	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING ...	5.1	3.0	2.1	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	8.7	5.0	3.6	-	.2	-	-	-	-	-
OFFICE OF PROTECTIVE RESEARCH	*	*	*	-	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	2.6	.1	2.5	-	-	-	-	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	2.0	2.0	-	-	-	-	-	-	-	-
AGENCY FOR INTERNAT'L DEVELOPMENT	206.5	11.1	14.2	-	89.7	-	7.3	-	-	84.2
CONSUMER PRODUCT SAFETY COMMISSION ...	.5	.5	-	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	207.7	87.5	60.8	-	43.2	-	15.5	-	-	.9
FEDERAL COMMUNICATIONS COMMISSION	1.0	1.0	.1	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	13.0	3.3	4.9	-	1.3	2.1	1.4	-	-	-
FEDERAL HOME LOAN BANK BOARD	3.1	2.9	-	-	.2	-	-	-	-	-
FEDERAL TRADE COMMISSION	1.7	1.7	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	1.8	.9	.2	-	-	-	.8	-	-	-
INTERNATIONAL TRADE COMMISSION	4.4	4.4	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	6.0	5.6	.4	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	2,462.5	1,168.3	813.6	-	207.0	182.6	83.6	.4	2.7	4.2
NATIONAL SCIENCE FOUNDATION	1,240.5	137.9	39.5	3.6	913.6	102.8	41.2	.1	1.4	.4
NUCLEAR REGULATORY COMMISSION	199.7	19.6	4.1	124.1	5.9	30.1	1.8	13.4	*	.8
SMITHSONIAN INSTITUTION	63.6	63.6	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	78.3	53.9	-	-	-	-	24.4	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY ..	6.1	.5	-	.7	*	4.6	.1	*	-	-
UNITED STATES INFORMATION AGENCY	6.4	.5	5.9	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	159.8	158.4	-	-	.9	-	.5	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

* INDICATES AMOUNT LESS THAN \$50,000.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-10. FEDERAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT
TO FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS,
BY AGENCY: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	RESEARCH AND DEVELOPMENT				R&D PLANT			
	TOTAL, ALL FFRDC'S	FFRDC'S ADMIN BY INDUS- TRIAL FIRMS	FFRDC'S ADMIN BY UNIV & COL	FFRDC'S ADMIN BY OTHER NONPROFIT INSTS	TOTAL, ALL FFRDC'S	FFRDC'S ADMIN BY INDUS- TRIAL FIRMS	FFRDC'S ADMIN BY UNIV & COL	FFRDC'S ADMIN BY OTHER NONPROFIT INSTS
TOTAL, ALL AGENCIES	4,003,670	1,506,426	1,976,671	520,573	813,296	362,190	441,660	9,446
DEPARTMENTS								
DEPARTMENT OF AGRICULTURE, TOTAL	205	100	105	-	-	-	-	-
COOPERATIVE STATE RESEARCH SERVICE ...	205	100	105	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	1,053	-	952	101	-	-	-	-
NATIONAL BUREAU OF STANDARDS	150	-	150	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	903	-	802	101	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	759,557	148,314	226,248	384,995	17,250	-	17,250	-
DEPARTMENT OF THE ARMY	50,868	2,779	38,463	9,626	-	-	-	-
DEPARTMENT OF THE NAVY	171,114	137,647	26,905	6,562	-	-	-	-
DEPARTMENT OF THE AIR FORCE	418,677	-	92,530	326,147	-	-	-	-
DEFENSE AGENCIES	114,312	7,888	68,350	38,074	17,250	-	17,250	-
DIRECTOR OF TEST & EVALUATION, DEFENSE	4,586	-	-	4,586	-	-	-	-
DEPARTMENT OF ENERGY	2,746,264	1,193,779	1,438,696	113,789	782,705	358,950	414,309	9,446
DEPT OF HLTH & HUMAN SERVICES, TOTAL ...	48,085	28,963	18,793	329	3,240	3,240	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	79	-	79	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	48,006	28,963	18,714	329	3,240	3,240	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	597	310	57	230	-	-	-	-
BUREAU OF MINES	57	-	57	-	-	-	-	-
BUREAU OF RECLAMATION	40	-	-	40	-	-	-	-
GEOLOGICAL SURVEY	370	200	-	170	-	-	-	-
NATIONAL PARK SERVICE	110	110	-	-	-	-	-	-
DEPARTMENT OF LABOR, TOTAL	534	-	534	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	534	-	534	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	83	83	-	-	-	-	-	-
DEPARTMENTAL FUNDS	83	83	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	3,975	-	3,975	-	-	-	-	-
COAST GUARD	149	-	149	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	3,595	-	3,595	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	231	-	231	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	40	40	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	40	40	-	-	-	-	-	-
OTHER AGENCIES								
FEDERAL EMERGENCY MANAGEMENT AGENCY	935	-	935	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	182,936	-	182,519	417	10,101	-	10,101	-
NATIONAL SCIENCE FOUNDATION	74,750	2,405	72,050	295	-	-	-	-
NUCLEAR REGULATORY COMMISSION	184,371	132,218	31,771	20,382	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY ...	285	214	36	35	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-11. FEDERAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT
TO FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS,
BY AGENCY: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	RESEARCH AND DEVELOPMENT				R&D PLANT			
	TOTAL, ALL FFRDC'S	FFRDC'S ADMIN BY INDUS- TRIAL FIRMS	FFRDC'S ADMIN BY UNIV & COL	FFRDC'S ADMIN BY OTHER NONPROFIT INSTS	TOTAL, ALL FFRDC'S	FFRDC'S ADMIN BY INDUS- TRIAL FIRMS	FFRDC'S ADMIN BY UNIV & COL	FFRDC'S ADMIN BY OTHER NONPROFIT INSTS
TOTAL, ALL AGENCIES	4,182,098	1,525,062	2,088,899	568,137	677,832	330,861	341,298	5,673
DEPARTMENTS								
DEPARTMENT OF COMMERCE, TOTAL	848	-	785	63	-	-	-	-
NATIONAL BUREAU OF STANDARDS	110	-	110	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	738	-	675	63	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	894,289	169,951	258,583	465,755	5,500	-	5,500	-
DEPARTMENT OF THE ARMY	63,008	4,312	47,676	11,020	-	-	-	-
DEPARTMENT OF THE NAVY	196,128	156,128	30,671	9,329	-	-	-	-
DEPARTMENT OF THE AIR FORCE	500,869	-	104,892	395,977	-	-	-	-
DEFENSE AGENCIES	130,826	9,511	75,344	45,971	5,500	-	5,500	-
DIRECTOR OF TEST & EVALUATION, DEFENSE	3,458	-	-	3,458	-	-	-	-
DEPARTMENT OF ENERGY	2,777,345	1,187,498	1,514,082	75,765	666,317	329,361	331,283	5,673
DEPT OF HLTH & HUMAN SERVICES, TOTAL ...	57,847	35,753	21,294	800	1,500	1,500	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	55	-	55	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	57,792	35,753	21,239	800	1,500	1,500	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	3,210	3,075	-	135	-	-	-	-
BUREAU OF MINES	2,850	2,850	-	-	-	-	-	-
BUREAU OF RECLAMATION	60	-	-	60	-	-	-	-
MINERAL MANAGEMENT SERVICE	300	225	-	75	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	1,216	1,127	89	-	-	-	-	-
IMMIGRATION & NATURALIZATION SVC	1,127	1,127	-	-	-	-	-	-
OFFICE OF LEGAL POLICY	89	-	89	-	-	-	-	-
DEPARTMENT OF LABOR, TOTAL	300	-	300	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	300	-	300	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	60	60	-	-	-	-	-	-
DEPARTMENTAL FUNDS	60	60	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	11,223	-	4,205	7,018	-	-	-	-
COAST GUARD	150	-	150	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	4,055	-	4,055	-	-	-	-	-
FEDERAL RAILROAD ADMINISTRATION	7,018	-	-	7,018	-	-	-	-
OTHER AGENCIES								
FEDERAL EMERGENCY MANAGEMENT AGENCY	587	-	587	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	183,025	-	182,600	425	4,515	-	4,515	-
NATIONAL SCIENCE FOUNDATION	78,491	2,649	75,663	179	-	-	-	-
NUCLEAR REGULATORY COMMISSION	173,485	124,917	30,621	17,947	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY ...	172	32	90	50	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-12. FEDERAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT
TO FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS,
BY AGENCY: FISCAL YEAR 1984 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	RESEARCH AND DEVELOPMENT				R&D PLANT			
	TOTAL, ALL FFRDC'S	FFRDC'S ADMIN BY INDUS- TRIAL FIRMS	FFRDC'S ADMIN BY UNIV & COL	FFRDC'S ADMIN BY OTHER NONPROFIT INSTS	TOTAL, ALL FFRDC'S	FFRDC'S ADMIN BY INDUS- TRIAL FIRMS	FFRDC'S ADMIN BY UNIV & COL	FFRDC'S ADMIN BY OTHER NONPROFIT INSTS
TOTAL, ALL AGENCIES	4,589,489	1,614,440	2,291,853	683,196	803,683	411,250	390,278	2,155
DEPARTMENTS								
DEPARTMENT OF COMMERCE, TOTAL	760	-	710	50	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	760	-	710	50	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,086,666	188,103	308,883	589,680	5,500	-	5,500	-
DEPARTMENT OF THE ARMY	94,835	8,971	71,253	14,611	-	-	-	-
DEPARTMENT OF THE NAVY	222,109	172,096	34,007	16,006	-	-	-	-
DEPARTMENT OF THE AIR FORCE	612,945	-	112,395	500,550	-	-	-	-
DEFENSE AGENCIES	152,498	7,036	91,228	54,234	5,500	-	5,500	-
DIRECTOR OF TEST & EVALUATION, DEFENSE	4,279	-	-	4,279	-	-	-	-
DEPARTMENT OF ENERGY	2,959,253	1,258,498	1,625,882	74,873	788,188	410,140	375,893	2,155
DEPT OF HLTH & HUMAN SERVICES, TOTAL ...	66,089	36,445	29,194	450	1,110	1,110	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	58	-	58	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	7,939	-	7,939	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	58,092	36,445	21,197	450	1,110	1,110	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	3,060	2,925	-	135	-	-	-	-
BUREAU OF MINES	2,700	2,700	-	-	-	-	-	-
BUREAU OF RECLAMATION	60	-	-	60	-	-	-	-
MINERAL MANAGEMENT SERVICE	300	225	-	75	-	-	-	-
DEPARTMENT OF LABOR, TOTAL	300	-	300	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	300	-	300	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	60	60	-	-	-	-	-	-
DEPARTMENTAL FUNDS	60	60	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	8,733	-	4,686	4,047	-	-	-	-
COAST GUARD	165	-	165	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	4,521	-	4,521	-	-	-	-	-
FEDERAL RAILROAD ADMINISTRATION	4,047	-	-	4,047	-	-	-	-
OTHER AGENCIES								
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,080	-	2,080	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	183,025	-	182,600	425	8,885	-	8,885	-
NATIONAL SCIENCE FOUNDATION	106,497	3,585	102,782	130	-	-	-	-
NUCLEAR REGULATORY COMMISSION	167,570	124,104	30,104	13,360	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY ...	5,396	720	4,630	46	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-13. FEDERAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT
TO FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS (FFRDCS),
BY INDIVIDUAL FFRDC AND AGENCY: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS	TOTAL	DEPT OF COMMERCE	DEPT OF DEFENSE	DEPT OF ENERGY	DEPT OF HEALTH & HUMAN SERVICES	NATIONAL AERO- NAUTICS & SPACE ADMIN	NATIONAL SCIENCE FOUNDA- TION	OTHER
TOTAL, ALL FFRDC'S	4,816,966	1,053	776,807	3,528,969	51,325	193,037	74,750	191,025
FFRDC'S ADMIN BY INDUSTRIAL FIRMS	1,868,616	-	148,314	1,552,729	32,202	-	2,465	132,965
CETIS ATOMIC POWER LAB	282,921	-	73,437	209,484	-	-	-	-
ENERGY TECH ENGINEERING CTR	36,405	-	-	36,252	-	-	-	153
FREDERICK CANCER RSCH CENTER	31,318	-	-	-	31,318	-	-	-
HANFORD ENGINEERING DEV LAB	287,698	-	-	286,715	-	-	-	983
IDAHO NAT'L ENGINEERING LAB	143,706	-	-	65,081	-	-	-	78,625
KNOLLS ATOMIC POWER LAB	231,492	-	63,913	166,204	-	-	-	1,377
OAK RIDGE NATIONAL LAB	201,300	-	174	175,763	885	-	2,405	22,077
SANDIA NATIONAL LABORATORIES	558,756	-	10,790	518,455	-	-	-	29,511
SAVANNAH RIVER LABORATORY	95,020	-	-	94,775	-	-	-	245
FFRDC'S ADMIN BY UNIVS & COLS	2,418,331	952	243,498	1,853,005	18,793	192,620	72,050	37,413
AMES LABORATORY	15,553	-	716	14,837	-	-	-	-
ARGONNE NATIONAL LABORATORY	223,896	120	77	216,697	489	8	32	6,473
BROOKHAVEN NATIONAL LAB	164,404	51	335	151,716	3,581	-	429	8,292
CENTER FOR NAVAL ANALYSES	21,957	-	17,707	3,690	-	-	26	534
CERRO TOLOLO INTER-AMERICAN OBS	6,057	-	-	-	-	-	6,057	-
E.O. LAWRENCE BERKELEY LAB	130,728	-	1,800	114,231	12,674	70	44	1,909
E.O. LAWRENCE LIVERMORE NAT'L LAB	590,276	240	43,734	540,413	79	-	-	5,810
FERMILAB	139,430	-	88	139,332	-	-	10	-
JET PROPULSION LABORATORY	208,485	-	11,513	4,289	745	191,834	29	75
KITTE PEAK NAT'L OBSERVATORY	11,220	-	-	-	-	-	11,220	-
LINCOLN LABORATORY	155,112	-	151,159	-	-	358	-	3,595
LOS ALAMOS NATIONAL LAB	490,484	-	16,369	462,990	-	350	50	10,725
NAT'L ASTRONOMY & IONOSPHERE CTR	5,320	-	-	-	-	-	5,320	-
NAT'L CENTER FOR ATMOSPHERIC RSCH	32,534	541	-	-	-	-	31,993	-
NAT'L RADIO ASTRONOMY OBSERVATORY	15,097	-	-	257	-	-	14,840	-
OAK RIDGE ASSOCIATED UNIVERSITIES	9,250	-	-	8,528	722	-	-	-
PLASMA PHYSICS LABORATORY	125,340	-	-	125,340	-	-	-	-
SACRAMENTO PEAK OBSERVATORY	2,000	-	-	-	-	-	2,000	-
STANFORD LINEAR ACCELERATOR CTR	71,188	-	-	70,685	503	-	-	-
FFRDC'S ADMIN BY OTHER NONPROFIT INSTS	530,019	101	384,995	123,235	329	417	295	20,647
AEROSPACE CORPORATION	207,225	-	205,773	831	-	309	107	205
INST FOR DEFENSE ANALYSES	16,183	-	16,183	-	-	-	-	-
MITRE CORP - C3 DIVISION	147,739	-	147,707	-	-	-	32	-
PACIFIC NORTHWEST LABORATORY	90,800	101	484	69,240	329	108	156	20,382
RAND - PROJECT AIR FORCE	14,846	-	14,848	-	-	-	-	-
SOLAR ENERGY RESEARCH INST	53,224	-	-	53,164	-	-	-	60

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-14. FEDERAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT TO FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS (FFRDCS), BY CATEGORY OF FFRDC, INDIVIDUAL FFRDC AND AGENCY: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS	TOTAL	DEPT OF COMMERCE	DEPT OF DEFENSE	DEPT OF ENERGY	DEPT OF HEALTH & HUMAN SERVICES	NATIONAL AERONAUTICS & SPACE ADMIN	NATIONAL SCIENCE FOUNDATION	OTHER
TOTAL, ALL FFRDC'S	4,816,966	1,053	776,807	3,528,969	51,325	193,037	74,750	191,025
RESEARCH LABORATORIES	314,164	541	86	210,274	31,821	-	71,440	-
FERMILAB	139,430	-	88	139,332	-	-	10	-
STANFORD LINEAR ACCELERATOR CTR	71,188	-	-	70,685	503	-	-	-
FREDERICK CANCER RSCH CENTER	31,318	-	-	-	31,318	-	-	-
CERRO TOLDO INTER-AMERICAN OSS	6,057	-	-	-	-	-	6,057	-
KITT PEAK NAT'L OBSERVATORY	11,220	-	-	-	-	-	11,220	-
NAT'L ASTRONOMY & IONOSPHERE CTR	5,320	-	-	-	-	-	5,320	-
NAT'L CENTER FOR ATMOSPHERIC RSCH	32,534	541	-	-	-	-	31,993	-
NAT'L RADIO ASTRONOMY OBSERVATORY	15,097	-	-	257	-	-	14,840	-
SACRAMENTO PEAK OBSERVATORY	2,000	-	-	-	-	-	2,000	-
R & D LABORATORIES	4,094,850	512	374,501	3,314,174	19,504	192,728	3,145	190,286
LINCOLN LABORATORY	155,112	-	151,159	-	-	358	-	3,595
AMES LABORATORY	15,553	-	716	14,837	-	-	-	-
ARGONNE NATIONAL LABORATORY	223,896	120	77	216,697	489	8	32	6,473
BETTIS ATOMIC POWER LAB	282,921	-	73,437	209,484	-	-	-	-
BROOKHAVEN NATIONAL LAB	164,404	51	335	151,716	3,581	-	429	8,292
E.D. LAWRENCE BERKELEY LAB	130,728	-	1,800	114,231	12,674	70	44	1,909
E.D. LAWRENCE LIVERMORE NAT'L LAB	590,276	240	43,734	540,413	79	-	-	5,810
ENERGY TECH ENGINEERING CTR	36,405	-	-	36,252	-	-	-	153
HAMFORD ENGINEERING DEV LAB	287,698	-	-	286,715	-	-	-	983
IDaho NAT'L ENGINEERING LAB	143,706	-	-	65,081	-	-	-	78,625
KNOLLS ATOMIC POWER LAB	231,492	-	63,913	166,204	-	-	-	1,375
LOS ALAMOS NATIONAL LAB	490,484	-	16,369	462,990	-	350	50	10,725
OAK RIDGE ASSOCIATED UNIVERSITIES	9,250	-	-	8,528	722	-	-	-
OAK RIDGE NATIONAL LAB	201,300	-	174	175,763	885	-	2,405	22,073
PACIFIC NORTHWEST LABORATORY	90,800	101	484	69,240	329	108	156	20,382
PLASMA PHYSICS LABORATORY	125,340	-	-	125,340	-	-	-	-
SANDIA NATIONAL LABORATORIES	558,756	-	10,790	518,455	-	-	-	29,511
SAVANNAH RIVER LABORATORY	95,020	-	-	94,775	-	-	-	245
SOLAR ENERGY RESEARCH INST	53,224	-	-	53,164	-	-	-	60
JET PROPULSION LABORATORY	208,485	-	11,513	4,289	745	191,834	29	75
STUDY AND ANALYSIS CENTERS	52,988	-	48,738	3,690	-	-	26	534
RAND - PROJECT AIR FORCE	14,848	-	14,848	-	-	-	-	-
CENTER FOR NAVAL ANALYSES	21,957	-	17,707	3,690	-	-	26	534
INST FOR DEFENSE ANALYSES	16,183	-	16,183	-	-	-	-	-
SYSTEM ENGINEERING/INTERGRATION CNTRS ..	354,964	-	353,480	831	-	309	139	205
AEROSPACE CORPORATION	207,225	-	205,773	831	-	309	107	205
MITRE CORP - C3 DIVISION	147,739	-	147,707	-	-	-	32	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-15. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL UNITED STATES AND TERRITORIES							STATE AND LOCAL GOVTS	FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS			
TOTAL, ALL AGENCIES	13,022,185	4,194,205	2,156,575	487,348	4,045,437	1,056,701	743,534	104,154	125,906	108,325	
DEPARTMENTS											
DEPARTMENT OF AGRICULTURE, TOTAL	766,463	502,960	2,501	100	252,898	105	2,998	-	2,967	1,934	
AGRICULTURAL COOPERATIVE SERVICE	1,704	1,450	-	-	254	-	-	-	-	-	
AGRICULTURAL MARKETING SERVICE	1,008	943	-	-	65	-	-	-	-	-	
AGRICULTURAL RESEARCH SERVICE	379,134	345,547	-	-	30,928	-	737	-	1,154	768	
COOPERATIVE STATE RESEARCH SERVICE	219,032	7,692	-	100	208,448	105	1,278	-	1,409	-	
ECONOMIC RESEARCH SERVICE	39,270	37,776	-	-	1,494	-	-	-	-	-	
FOREST SERVICE	107,659	96,796	371	-	9,773	-	233	-	404	82	
HUMAN NUTRITION INFORMATION SERVICE	8,500	4,100	2,130	-	1,520	-	750	-	-	-	
OFF OF INTERNAT'L COOPERATION & DEV	2,355	1,271	-	-	-	-	-	-	-	1,084	
OFFICE OF TRANSPORTATION	801	801	-	-	-	-	-	-	-	-	
STATISTICAL REPORTING SERVICE	7,000	6,584	-	-	416	-	-	-	-	-	
DEPARTMENT OF COMMERCE, TOTAL	276,055	198,019	13,805	-	45,586	802	11,837	101	5,611	294	
BUREAU OF THE CENSUS	1,870	1,721	-	-	149	-	-	-	-	-	
ECONOMIC DEVELOPMENT ADMINISTRATION	1,600	171	108	-	-	-	1,321	-	-	-	
NATIONAL BUREAU OF STANDARDS	73,947	71,482	462	-	1,924	-	30	-	-	49	
NAT'L OCEANIC & ATMOSPHERIC ADMIN	188,516	114,543	13,235	-	43,513	802	10,486	101	5,611	225	
NAT'L TELECOMM & INFORMATION ADMIN	10,100	10,100	-	-	-	-	-	-	-	-	
OFFICE OF THE SECRETARY	22	2	-	-	-	-	-	-	-	20	
DEPARTMENT OF DEFENSE, TOTAL	2,952,821	1,059,751	1,220,877	82,546	412,685	73,464	67,468	18,267	91	17,672	
DEPARTMENT OF THE ARMY	639,223	390,721	144,289	15	83,051	2,318	11,611	860	91	6,267	
DEPARTMENT OF THE NAVY	778,700	286,924	240,804	74,643	159,851	764	7,100	4,800	-	3,814	
DEPARTMENT OF THE AIR FORCE	633,900	178,081	310,318	-	118,550	2,032	20,225	-	-	4,694	
DEFENSE AGENCIES	900,998	204,025	525,466	7,888	51,233	68,350	28,532	12,607	-	2,897	
DEPARTMENT OF EDUCATION	70,467	9,779	1,495	-	42,646	-	13,020	-	1,553	1,974	
DEPARTMENT OF ENERGY	1,696,088	67,762	240,303	249,687	235,813	807,356	26,714	64,101	927	3,425	
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	3,605,584	881,603	99,072	19,949	2,025,102	14,528	490,220	329	50,277	24,504	
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	246,056	88,106	4,484	-	113,829	79	32,265	-	6,276	1,017	
CENTERS FOR DISEASE CONTROL	75,039	54,219	6,953	-	7,147	-	6,364	-	122	234	
FOOD & DRUG ADMINISTRATION	73,000	64,579	-	-	4,302	-	3,999	-	-	120	
HEALTH CARE FINANCING ADMIN	29,083	1,518	9,101	-	5,340	-	7,697	-	5,427	-	
HEALTH RESOURCES AND SERVICES ADMINISTRATION	6,698	1,200	-	-	5,157	-	180	-	161	-	
HUMAN DEVELOPMENT SERVICES	8,733	1,127	1,017	-	1,726	-	3,194	-	1,654	15	
NATIONAL INSTITUTES OF HEALTH	3,124,452	648,927	74,163	19,949	1,880,706	14,449	430,155	329	32,841	22,933	
OFFICE OF ASST'T SECY FOR HEALTH	13,899	7,021	1,809	-	4,457	-	513	-	18	81	
OFFICE OF THE SECRETARY	13,085	2,466	1,192	-	1,246	-	5,670	-	2,511	-	
SOCIAL SECURITY ADMINISTRATION	15,539	12,440	353	-	1,152	-	183	-	1,267	104	
DEPT OF HOUSING & URBAN DEVELOPMENT ..	10,310	9,073	319	-	-	-	918	-	-	-	
DEPARTMENT OF THE INTERIOR, TOTAL	351,460	239,495	22,715	310	32,650	57	2,047	230	53,520	436	
BUREAU OF LAND MANAGEMENT	2,388	680	-	-	1,483	-	195	-	30	-	
BUREAU OF MINES	81,094	53,072	14,746	-	11,338	57	1,774	-	107	-	
BUREAU OF RECLAMATION	8,983	6,137	1,314	-	1,237	-	-	60	235	-	
GEOLOGICAL SURVEY	152,060	139,357	3,826	200	8,507	-	-	170	-	-	
NATIONAL PARK SERVICE	11,203	9,358	-	110	1,657	-	78	-	-	-	
OFFICE OF THE SECRETARY	480	44	-	-	-	-	-	-	-	436	
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1,500	994	385	-	58	-	-	-	63	-	
OFFICE OF WATER RSCH & TECHNOLOGY ..	10,105	1,791	1,944	-	6,370	-	-	-	-	-	
US FISH & WILDLIFE SERVICE	83,647	28,062	500	-	2,000	-	-	-	53,085	-	
DEPARTMENT OF JUSTICE, TOTAL	16,305	1,331	1,182	-	5,966	-	7,703	-	123	-	
DRUG ENFORCEMENT ADMINISTRATION	1,300	400	900	-	-	-	-	-	-	-	
FEDERAL PRISON SYSTEM	948	475	-	-	185	-	288	-	-	-	
IMMIGRATION & NATURALIZATION SVC	250	50	200	-	-	-	-	-	-	-	
OFF OF JUSTICE ASSIST, RSCH, & STAT	13,415	402	-	-	5,573	-	7,317	-	123	-	
OFFICE OF LEGAL POLICY	392	4	82	-	208	-	98	-	-	-	
DEPARTMENT OF LABOR, TOTAL	17,155	5,746	4,149	-	3,843	300	3,085	-	-	32	
BUREAU OF LABOR STATISTICS	291	291	-	-	-	-	-	-	-	-	
EMPLOYMENT STANDARDS ADMINISTRATION ..	1,400	1,170	-	-	230	-	-	-	-	-	
EMPLOYMENT & TRAINING ADMIN	8,654	1,654	-	-	3,583	300	3,085	-	-	32	
LABOR-MANAGEMENT SERVICES ADMIN	715	715	-	-	-	-	-	-	-	-	
OCCUPATIONAL SAFETY & HEALTH ADMIN ..	4,900	961	3,909	-	30	-	-	-	-	-	
OFFICE OF THE SECRETARY	900	900	-	-	-	-	-	-	-	-	
PENSION BENEFIT GUARANTEE CORPORATION	295	55	240	-	-	-	-	-	-	-	

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TABLE C-15. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA- MURAL 1/	EXTRAMURAL UNITED STATES AND TERRITORIES							STATE AND LOCAL GOVTS	FOREIGN
			INDUS- TRIAL FIRMS	FFRDCS ADMIN BY INDUS- TRIAL FIRMS	UNIVER- SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON- PROFIT INSTI- TUTIONS	FFRDCS ADMIN BY NON- PROFIT INSTI- TUTIONS			
DEPARTMENT OF STATE, TOTAL	1,549	800	645	83	7	-	14	-	-	-	
DEPARTMENTAL FUNDS	1,549	800	645	83	7	-	14	-	-	-	
DEPARTMENT OF TRANSPORTATION, TOTAL ..	66,605	18,780	31,767	-	6,883	12	3,064	-	6,179	-	
COAST GUARD	1,650	896	739	-	3	12	-	-	-	-	
FEDERAL AVIATION ADMINISTRATION	7,000	1,540	5,460	-	-	-	-	-	-	-	
FEDERAL HIGHWAY ADMINISTRATION	5,300	890	2,110	-	1,000	-	1,100	-	200	-	
FEDERAL RAILROAD ADMINISTRATION	3,100	2,418	682	-	-	-	-	-	-	-	
MARITIME ADMINISTRATION	6,600	900	4,551	-	649	-	400	-	100	-	
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	21,300	6,580	11,046	-	1,551	-	953	-	1,170	-	
OFFICE OF THE SECRETARY	260	143	117	-	-	-	-	-	-	-	
RESEARCH & SPECIAL PROGRAMS ADMIN ..	2,100	1,600	300	-	200	-	-	-	-	-	
URBAN MASS TRANSPORTATION ADMIN	19,375	3,813	6,762	-	3,480	-	611	-	4,709	-	
DEPARTMENT OF THE TREASURY, TOTAL	8,145	6,531	1,609	-	5	-	-	-	-	-	
BUREAU OF ENGRAVING AND PRINTING ...	2,821	1,637	1,184	-	-	-	-	-	-	-	
INTERNAL REVENUE SERVICE	5,276	4,846	425	-	5	-	-	-	-	-	
UNITED STATES CUSTOMS SERVICE	48	48	-	-	-	-	-	-	-	-	
OTHER AGENCIES											
ADVISORY COMM ON INTERGOV'TL RELATIONS	2,033	2,033	-	-	-	-	-	-	-	-	
AGENCY FOR INTERNAT'L DEVELOPMENT	127,904	7,160	15,556	-	46,000	-	6,323	-	-	52,865	
APPALACHIAN REGIONAL COMMISSION	300	50	150	-	-	-	-	-	100	-	
CONSUMER PRODUCT SAFETY COMMISSION ...	56	56	-	-	-	-	-	-	-	-	
ENVIRONMENTAL PROTECTION AGENCY	243,379	93,877	75,211	-	57,842	-	14,470	-	1,979	-	
FEDERAL COMMUNICATIONS COMMISSION	1,244	1,147	97	-	-	-	-	-	-	-	
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	9,212	3,789	2,285	-	1,412	935	791	-	-	-	
FEDERAL HOME LOAN BANK BOARD	2,701	2,588	73	-	40	-	-	-	-	-	
FEDERAL TRADE COMMISSION	1,188	1,188	-	-	-	-	-	-	-	-	
GENERAL SERVICES ADMINISTRATION	537	537	-	-	-	-	-	-	-	-	
INTERNATIONAL TRADE COMMISSION	3,764	3,764	-	-	-	-	-	-	-	-	
LIBRARY OF CONGRESS	860	860	-	-	-	-	-	-	-	-	
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,407,140	751,841	391,075	-	155,852	55,265	47,781	414	1,240	3,652	
NATIONAL SCIENCE FOUNDATION	973,165	118,249	25,421	2,405	713,350	72,050	39,379	295	1,239	777	
NUCLEAR REGULATORY COMMISSION	220,287	20,914	5,510	132,218	6,379	31,771	2,253	20,382	100	760	
SMITHSONIAN INSTITUTION	52,357	52,357	-	-	-	-	-	-	-	-	
TENNESSEE VALLEY AUTHORITY	12,700	9,966	-	-	-	-	2,734	-	-	-	
US ARMS CONTROL & DISARMAMENT AGENCY ..	1,271	189	538	50	148	36	275	35	-	-	
VETERANS ADMINISTRATION	123,000	122,010	220	-	330	-	440	-	-	-	

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-16. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL UNITED STATES AND TERRITORIES							STATE AND LOCAL GOVTS	FOREIGN
			INDUS-TRIAL FIRMS	FFRDGS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDGS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDGS ADMIN BY NON-PROFIT INSTI-TUTIONS			
TOTAL, ALL AGENCIES	14,154,328	4,576,967	2,339,958	515,102	4,407,536	1,165,280	804,382	83,840	144,568	116,695	
DEPARTMENTS											
DEPARTMENT OF AGRICULTURE, TOTAL	822,465	539,533	1,351	-	269,229	-	1,752	-	2,986	7,614	
AGRICULTURAL COOPERATIVE SERVICE	1,716	1,416	-	-	300	-	-	-	-	-	
AGRICULTURAL MARKETING SERVICE	1,250	1,250	-	-	-	-	-	-	-	-	
AGRICULTURAL RESEARCH SERVICE	419,335	382,938	-	-	33,739	-	737	-	1,154	767	
COOPERATIVE STATE RESEARCH SERVICE	234,949	7,121	-	-	226,383	-	-	-	1,445	-	
ECONOMIC RESEARCH SERVICE	38,964	38,664	-	-	300	-	-	-	-	-	
FOREST SERVICE	101,346	94,914	351	-	5,400	-	215	-	387	79	
HUMAN NUTRITION INFORMATION SERVICE OFF OF INTERNAT'L COOPERATION & DEV	8,200 8,098 707	3,800 1,330 707	1,000 - -	- - -	2,600 - -	- - -	800 - -	- - -	- - -	6,768	
OFFICE OF TRANSPORTATION	7,900	7,393	-	-	507	-	-	-	-	-	
STATISTICAL REPORTING SERVICE											
DEPARTMENT OF COMMERCE, TOTAL	280,127	201,158	14,970	-	46,340	785	10,606	63	5,381	824	
BUREAU OF THE CENSUS	2,230	1,870	-	-	360	-	-	-	-	-	
ECONOMIC DEVELOPMENT ADMINISTRATION	2,000	200	100	-	700	-	1,000	-	-	-	
NATIONAL BUREAU OF STANDARDS	80,080	76,405	1,025	-	2,510	110	30	-	-	-	
NAT'L OCEANIC & ATMOSPHERIC ADMIN	187,417	114,763	13,845	-	42,770	675	9,576	63	5,381	344	
NAT'L TELECOMM & INFORMATION ADMIN	7,900	7,900	-	-	-	-	-	-	-	-	
OFFICE OF THE SECRETARY	500	20	-	-	-	-	-	-	-	480	
DEPARTMENT OF DEFENSE, TOTAL	3,161,524	1,111,113	1,289,209	92,573	473,199	79,684	80,484	16,757	108	18,397	
DEPARTMENT OF THE ARMY	652,949	375,313	163,252	25	92,368	2,473	13,004	845	108	5,561	
DEPARTMENT OF THE NAVY	821,900	300,337	240,733	83,037	178,379	567	8,845	5,510	-	4,492	
DEPARTMENT OF THE AIR FORCE	656,600	184,529	317,309	-	125,144	1,300	23,312	-	-	5,006	
DEFENSE AGENCIES	1,030,075	250,934	567,915	9,511	77,308	75,344	35,323	10,402	-	3,338	
DEPARTMENT OF EDUCATION	78,094	7,316	1,582	-	49,008	-	17,506	-	2,077	605	
DEPARTMENT OF ENERGY	1,968,600	107,081	339,591	266,057	260,641	905,289	33,948	46,571	4,946	4,476	
DEPT OF HLTH & HUMAN SERVICES, TOTAL	3,972,742	976,163	114,786	25,439	2,237,453	16,760	516,545	800	55,457	29,339	
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	282,413	108,672	3,206	-	126,357	55	35,825	-	7,077	1,221	
CENTERS FOR DISEASE CONTROL	71,566	54,359	6,441	-	3,600	-	5,896	-	120	1,150	
FOOD & DRUG ADMINISTRATION	76,600	68,600	-	-	4,000	-	3,900	-	-	100	
HEALTH CARE FINANCING ADMIN	30,000	1,583	9,387	-	5,493	-	7,939	-	5,598	-	
HEALTH RESOURCES AND SERVICES ADMINISTRATION	8,350	3,350	-	-	4,800	-	200	-	-	-	
HUMAN DEVELOPMENT SERVICES	7,363	1,127	784	-	1,106	-	2,883	-	1,455	8	
NATIONAL INSTITUTES OF HEALTH	3,443,324	715,996	83,889	25,439	2,083,812	16,705	451,100	800	39,223	26,360	
OFFICE OF ASST'T SECY FOR HEALTH	14,618	7,200	1,835	-	4,730	-	353	-	-	500	
OFFICE OF THE SECRETARY	14,218	2,150	2,844	-	2,500	-	6,694	-	30	-	
SOCIAL SECURITY ADMINISTRATION	24,290	13,126	6,400	-	1,055	-	1,755	-	1,954	-	
DEPT OF HOUSING & URBAN DEVELOPMENT	11,936	10,504	370	-	-	-	1,062	-	-	-	
DEPARTMENT OF THE INTERIOR, TOTAL	368,760	256,390	19,248	3,075	26,206	-	950	135	62,247	509	
BUREAU OF LAND MANAGEMENT	1,947	1,150	22	-	740	-	-	-	35	-	
BUREAU OF MINES	93,836	68,394	12,442	2,850	9,350	-	800	-	-	-	
BUREAU OF RECLAMATION	8,940	7,309	706	-	765	-	-	60	100	-	
GEOLOGICAL SURVEY	150,290	139,328	2,462	-	8,500	-	-	-	-	-	
MINERAL MANAGEMENT SERVICE	1,500	750	150	225	300	-	-	75	-	-	
NATIONAL PARK SERVICE	11,806	9,856	-	-	1,800	-	150	-	-	-	
OFFICE OF THE SECRETARY	6,770	51	-	-	-	-	-	-	6,210	509	
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1,478	465	778	-	235	-	-	-	-	-	
OFFICE OF WATER RSCH & TECHNOLOGY	6,017	1,023	2,178	-	2,816	-	-	-	-	-	
US FISH & WILDLIFE SERVICE	86,176	28,064	510	-	1,700	-	-	-	55,902	-	
DEPARTMENT OF JUSTICE, TOTAL	23,829	1,218	884	300	6,324	89	14,289	-	725	-	
DRUG ENFORCEMENT ADMINISTRATION	800	200	600	-	-	-	-	-	-	-	
FEDERAL PRISON SYSTEM	1,100	475	-	-	300	-	325	-	-	-	
IMMIGRATION & NATURALIZATION SVC	350	50	-	300	-	-	-	-	-	-	
OFF OF JUSTICE ASSIST, RSCH, & STAT	20,987	487	-	-	5,811	-	13,964	-	725	-	
OFFICE OF LEGAL POLICY	592	6	284	-	213	89	-	-	-	-	
DEPARTMENT OF LABOR, TOTAL	15,869	5,130	6,599	-	3,380	300	460	-	-	-	
BUREAU OF LABOR STATISTICS	315	315	-	-	-	-	-	-	-	-	
EMPLOYMENT STANDARDS ADMINISTRATION	2,000	1,000	1,000	-	-	-	-	-	-	-	
EMPLOYMENT & TRAINING ADMIN	5,834	1,643	51	-	3,380	300	460	-	-	-	
LABOR-MANAGEMENT SERVICES ADMIN	751	751	-	-	-	-	-	-	-	-	
OCCUPATIONAL SAFETY & HEALTH ADMIN	5,700	400	5,300	-	-	-	-	-	-	-	
OFFICE OF THE SECRETARY	1,000	1,000	-	-	-	-	-	-	-	-	
PENSION BENEFIT GUARANTEE CORPORATION	269	21	248	-	-	-	-	-	-	-	

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TABLE C-16. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA- MURAL 1/	EXTRAMURAL UNITED STATES AND TERRITORIES							FOREIGN
			INDUS- TRIAL FIRMS	FFRDCS ADMIN BY INDUS- TRIAL FIRMS	UNIVER- SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON- PROFIT INSTI- TUTIONS	FFRDCS ADMIN BY NON- PROFIT INSTI- TUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF STATE, TOTAL	1,596	816	640	60	30	-	50	-	-	-
DEPARTMENTAL FUNDS	1,596	816	640	60	30	-	50	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	78,597	20,380	38,252	-	7,852	12	4,020	918	7,163	-
COAST GUARD	1,650	896	739	-	3	12	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	12,500	2,750	9,750	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	7,100	990	3,010	-	1,600	-	1,100	-	400	-
FEDERAL RAILROAD ADMINISTRATION	5,100	3,009	1,173	-	-	-	-	918	-	-
MARITIME ADMINISTRATION	8,650	900	5,250	-	800	-	1,300	-	400	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	22,800	6,976	11,754	-	1,588	-	1,067	-	1,415	-
OFFICE OF THE SECRETARY	263	113	-	-	150	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	2,500	900	200	-	1,400	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	18,034	3,846	6,376	-	2,311	-	553	-	4,948	-
DEPARTMENT OF THE TREASURY, TOTAL	11,245	6,981	4,124	-	140	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING ...	2,970	1,757	1,213	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	8,275	5,224	2,911	-	140	-	-	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,956	1,956	-	-	-	-	-	-	-	-
AGENCY FOR INTERNATIONAL DEVELOPMENT ...	117,287	8,440	10,149	-	43,370	-	6,360	-	-	48,968
APPALACHIAN REGIONAL COMMISSION	300	30	120	-	-	-	-	-	150	-
CONSUMER PRODUCT SAFETY COMMISSION ...	302	302	-	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	173,894	74,317	44,212	-	42,484	-	11,540	-	641	700
FEDERAL COMMUNICATIONS COMMISSION	1,212	1,086	126	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	3,675	919	1,397	-	368	587	404	-	-	-
FEDERAL HOME LOAN BANK BOARD	2,988	2,788	-	-	200	-	-	-	-	-
FEDERAL TRADE COMMISSION	1,739	1,739	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	445	145	50	-	-	-	250	-	-	-
INTERNATIONAL TRADE COMMISSION	3,989	3,989	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	1,121	1,121	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,561,536	871,746	415,917	-	160,000	55,400	53,023	420	1,329	3,700
NATIONAL SCIENCE FOUNDATION	1,060,200	130,650	29,918	2,649	775,092	75,663	44,245	179	1,270	534
NUCLEAR REGULATORY COMMISSION	209,500	20,919	5,715	124,917	5,798	30,621	2,466	17,947	88	1,029
SMITHSONIAN INSTITUTION	55,749	55,749	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	15,500	11,703	-	-	-	-	3,797	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY ..	1,152	104	748	32	28	90	100	50	-	-
VETERANS ADMINISTRATION	146,400	145,481	-	-	394	-	525	-	-	-

1 INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-17. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1984 (ESTIMATED)
(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1	UNITED STATES AND TERRITORIES						STATE AND LOCAL GOVTS	FOREIGN
			INDUS-TRIAL FIRMS	FFRDGS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDGS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDGS ADMIN BY NON-PROFIT INSTI-TUTIONS		
TOTAL, ALL AGENCIES	14,663,239	4,636,576	2,426,555	502,002	4,667,045	1,286,818	785,912	96,135	139,695	122,501
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	818,898	551,671	1,637	-	255,558	-	1,238	-	2,293	6,501
AGRICULTURAL COOPERATIVE SERVICE ...	1,360	1,360	-	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	430,566	393,232	-	-	34,676	-	737	-	1,154	767
COOPERATIVE STATE RESEARCH SERVICE ..	221,715	6,976	-	-	213,975	-	-	-	764	-
ECONOMIC RESEARCH SERVICE	45,024	44,724	-	-	300	-	-	-	-	-
FOREST SERVICE	97,744	91,854	337	-	4,900	-	201	-	375	77
HUMAN NUTRITION INFORMATION SERVICE	6,600	3,800	1,300	-	1,200	-	300	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	4,939	1,282	-	-	-	-	-	-	-	5,657
OFFICE OF TRANSPORTATION	750	750	-	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	8,200	7,693	-	-	507	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	199,693	165,135	8,026	-	19,160	710	4,604	50	1,206	802
BUREAU OF THE CENSUS	2,277	1,917	-	-	360	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	70,802	68,002	900	-	1,900	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	118,614	87,896	7,126	-	16,900	713	4,604	50	1,206	122
NAT'L TELECOMM & INFORMATION ADMIN ..	7,300	7,300	-	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	700	20	-	-	-	-	-	-	-	680
DEPARTMENT OF DEFENSE, TOTAL	3,572,179	1,169,857	1,532,081	98,462	546,780	97,088	81,612	26,054	96	20,149
DEPARTMENT OF THE ARMY	745,913	413,871	201,089	-	100,005	3,823	16,019	3,965	96	7,045
DEPARTMENT OF THE NAVY	883,000	309,511	271,455	91,426	188,582	537	8,784	7,866	-	4,839
DEPARTMENT OF THE AIR FORCE	732,600	193,506	346,403	-	159,331	1,500	26,338	-	-	5,522
DEFENSE AGENCIES	1,210,666	252,969	713,134	7,036	98,862	91,228	30,471	14,223	-	2,743
DEPARTMENT OF EDUCATION	71,189	7,124	1,283	-	45,204	-	15,337	-	1,526	715
DEPARTMENT OF ENERGY	1,830,608	70,769	174,294	245,911	276,217	969,409	27,150	54,968	11,280	610
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	4,093,698	1,007,316	119,282	26,235	2,307,503	24,284	521,442	450	56,354	30,832
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	318,862	113,892	3,630	-	149,294	58	42,350	-	8,214	1,424
CENTERS FOR DISEASE CONTROL	76,757	57,751	7,952	-	1,900	-	7,284	-	120	1,750
FOOD & DRUG ADMINISTRATION	82,100	73,800	-	-	5,000	-	3,200	-	-	100
HEALTH CARE FINANCING ADMIN	30,000	1,583	9,387	-	5,493	7,939	-	-	5,598	-
HEALTH RESOURCES AND SERVICES ADMINISTRATION	1,200	1,200	-	-	-	-	-	-	-	-
HUMAN DEVELOPMENT SERVICES	5,955	255	200	-	171	-	3,430	-	1,890	9
NATIONAL INSTITUTES OF HEALTH	3,522,808	732,854	86,459	26,235	2,139,032	16,287	456,392	450	38,450	26,649
OFFICE OF ASST'T SECY FOR HEALTH	16,243	7,825	1,994	-	4,730	-	794	-	-	900
OFFICE OF THE SECRETARY	10,500	1,995	2,305	-	1,200	-	5,000	-	-	-
SOCIAL SECURITY ADMINISTRATION	29,273	16,161	7,355	-	683	-	2,992	-	2,082	-
DEPT OF HOUSING & URBAN DEVELOPMENT ..	10,089	8,878	313	-	-	-	898	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	310,448	223,938	8,967	2,925	14,002	-	650	135	58,357	1,474
BUREAU OF LAND MANAGEMENT	1,800	934	34	-	800	-	-	-	32	-
BUREAU OF MINES	65,353	56,653	5,000	2,700	500	-	500	-	-	-
BUREAU OF RECLAMATION	9,648	6,995	1,425	-	1,163	-	-	60	5	-
GEOLOGICAL SURVEY	136,037	127,296	1,741	-	7,000	-	-	-	-	-
MINERAL MANAGEMENT SERVICE	1,500	750	150	225	300	-	-	75	-	-
NATIONAL PARK SERVICE	12,500	9,750	100	-	2,500	-	150	-	-	-
OFFICE OF THE SECRETARY	1,620	146	-	-	-	-	-	-	-	1,474
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	970	640	252	-	39	-	-	-	39	-
US FISH & WILDLIFE SERVICE	81,020	20,774	265	-	1,700	-	-	-	58,281	-
DEPARTMENT OF JUSTICE, TOTAL	14,445	1,038	1,000	-	4,133	-	7,824	-	450	-
DRUG ENFORCEMENT ADMINISTRATION	800	200	600	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	850	475	-	-	17	-	200	-	-	-
IMMIGRATION & NATURALIZATION SVC	250	50	200	-	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	12,020	309	-	-	3,800	-	7,461	-	450	-
OFFICE OF LEGAL POLICY	525	4	200	-	158	-	163	-	-	-
DEPARTMENT OF LABOR, TOTAL	17,270	5,439	6,102	-	4,664	300	765	-	-	-
BUREAU OF LABOR STATISTICS	377	377	-	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION ..	1,250	1,050	200	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	6,675	1,604	92	-	4,101	300	578	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	1,786	786	250	-	563	-	187	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN ..	5,700	400	5,300	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	1,200	1,200	-	-	-	-	-	-	-	-
PENSION BENEFIT GUARANTEE CORPORATION	282	22	260	-	-	-	-	-	-	-

CONTINUED ON NEXT PAGE

TABLE C-17. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1984 (ESTIMATED)
(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF STATE, TOTAL	1,608	820	640	60	38	-	50	-	-	-
DEPARTMENTAL FUNDS	1,608	820	640	60	38	-	50	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	81,186	18,587	47,076	-	6,105	29	3,468	522	5,399	-
COAST GUARD	3,850	2,090	1,725	-	6	29	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	23,200	3,094	20,106	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	6,400	50	3,500	-	1,500	-	1,200	-	150	-
FEDERAL RAILROAD ADMINISTRATION	2,900	1,711	667	-	-	-	-	522	-	-
MARITIME ADMINISTRATION	6,500	600	4,200	-	600	-	800	-	300	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	22,400	6,854	11,650	-	1,574	-	1,058	-	1,264	-
OFFICE OF THE SECRETARY	471	321	-	-	150	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	1,800	1,000	300	-	500	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	13,665	2,867	4,928	-	1,775	-	410	-	3,685	-
DEPARTMENT OF THE TREASURY, TOTAL	11,645	6,114	4,759	-	172	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING ...	3,015	1,333	1,182	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	8,630	4,881	3,577	-	172	-	-	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	2,036	2,036	-	-	-	-	-	-	-	-
AGENCY FOR INTERNAT'L DEVELOPMENT	140,645	8,720	10,825	-	58,473	-	6,940	-	-	55,687
CONSUMER PRODUCT SAFETY COMMISSION ...	107	107	-	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	148,631	64,914	36,678	-	36,359	-	9,780	-	-	900
FEDERAL COMMUNICATIONS COMMISSION	1,002	952	50	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	13,000	3,250	4,940	-	1,300	2,080	1,430	-	-	-
FEDERAL HOME LOAN BANK BOARD	3,103	2,903	-	-	200	-	-	-	-	-
FEDERAL TRADE COMMISSION	1,688	1,688	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	1,200	228	212	-	-	-	760	-	-	-
INTERNATIONAL TRADE COMMISSION	4,385	4,385	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	1,203	1,203	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,646,880	933,932	424,779	-	171,400	55,400	55,920	420	1,329	3,700
NATIONAL SCIENCE FOUNDATION	1,240,465	137,929	39,536	3,585	913,585	102,782	41,167	130	1,380	371
NUCLEAR REGULATORY COMMISSION	199,740	19,600	4,075	124,104	5,885	30,106	1,825	13,360	25	760
SMITHSONIAN INSTITUTION	63,618	63,618	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	13,200	10,773	-	-	-	-	2,427	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY ..	6,080	540	-	720	32	4,630	112	46	-	-
VETERANS ADMINISTRATION	143,300	142,512	-	-	275	-	513	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-18. FEDERAL OBLIGATIONS FOR RESEARCH, BY DETAILED FIELD OF SCIENCE:
FISCAL YEARS 1982, 1983, AND 1984

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1982	ESTIMATES	
		1983	1984
TOTAL, ALL FIELDS	13,022,185	14,154,328	14,663,239
LIFE SCIENCES, TOTAL	4,745,499	5,133,015	5,251,028
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	2,079,260	2,243,547	2,307,727
ENVIRONMENTAL BIOLOGY	183,532	193,149	203,673
AGRICULTURAL	548,978	596,996	584,305
MEDICAL	1,773,025	1,935,770	1,985,317
LIFE SCIENCES, NEC	160,704	163,553	170,006
PSYCHOLOGY, TOTAL	218,396	241,425	271,714
BIOLOGICAL ASPECTS	59,586	68,877	76,015
SOCIAL ASPECTS	98,099	107,456	127,131
PSYCHOLOGICAL SCIENCES, NEC	60,711	65,092	68,568
PHYSICAL SCIENCES, TOTAL	2,500,381	2,851,741	3,178,837
ASTRONOMY	275,784	328,805	338,320
CHEMISTRY	481,154	476,960	528,990
PHYSICS	1,610,508	1,867,016	2,078,307
PHYSICAL SCIENCES, NEC	132,935	178,960	233,220
ENVIRONMENTAL SCIENCES, TOTAL	1,148,303	1,218,581	1,188,635
ATMOSPHERIC	425,829	425,862	455,615
GEOLOGICAL	357,556	398,423	373,995
OCEANOGRAPHY	261,278	264,746	247,899
ENVIRONMENTAL SCIENCES, NEC	103,640	129,550	111,126
MATHEMATICS & COMPUTER SCIENCES, TOTAL	350,080	399,429	481,591
MATHEMATICS	128,131	138,187	161,306
COMPUTER SCIENCES	170,938	201,429	249,508
MATHEMATICS & COMPUTER SCIENCES, NEC	51,011	59,813	70,777
ENGINEERING, TOTAL	3,386,543	3,501,489	3,486,898
AERONAUTICAL	741,158	756,879	797,630
ASTRONAUTICAL	290,734	339,997	357,488
CHEMICAL	95,118	138,875	107,875
CIVIL	201,919	193,514	175,002
ELECTRICAL	612,186	617,637	683,713
MECHANICAL	201,228	198,784	202,729
METALLURGY & MATERIALS	309,129	336,393	359,655
ENGINEERING, NEC	935,071	919,410	802,806
SOCIAL SCIENCES, TOTAL	385,939	425,502	432,280
ANTHROPOLOGY	14,564	12,440	20,351
ECONOMICS	157,102	163,996	171,219
POLITICAL SCIENCE	7,534	7,583	6,721
SOCIOLOGY	52,005	57,850	59,425
SOCIAL SCIENCES, NEC	154,734	183,633	174,564
OTHER SCIENCES, NEC	287,044	383,146	372,256

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-19. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1982
(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY- CHOLOGY	PHYSICAL SCIENCES	ENVIRON- MENTAL SCIENCES	MATHE- MATICS AND COM- PUTER SCIENCES	ENGI- NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	13,022,185	4,745,499	218,396	2,500,381	1,148,303	350,080	3,386,543	385,939	287,044
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	766,463	530,864	185	62,202	13,479	18,697	51,176	89,860	-
AGRICULTURAL COOPERATIVE SERVICE	1,704	-	-	-	-	-	-	1,704	-
AGRICULTURAL MARKETING SERVICE	1,008	1,008	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	379,134	296,788	-	47,077	2,665	1,375	30,011	1,218	-
COOPERATIVE STATE RESEARCH SERVICE	219,032	155,611	-	10,135	1,269	-	6,949	45,068	-
ECONOMIC RESEARCH SERVICE	39,270	-	-	-	-	5,973	-	33,297	-
FOREST SERVICE	107,659	66,101	185	4,990	9,545	4,049	14,216	8,573	-
HUMAN NUTRITION INFORMATION SERVICE	8,500	8,200	-	-	-	300	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	2,355	2,355	-	-	-	-	-	-	-
OFFICE OF TRANSPORTATION	801	801	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	7,000	-	-	-	-	7,000	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	276,055	58,827	192	46,330	119,290	13,675	32,013	3,624	2,104
BUREAU OF THE CENSUS	1,870	-	192	-	-	1,249	-	392	37
ECONOMIC DEVELOPMENT ADMINISTRATION	1,600	-	-	-	-	-	-	1,600	-
NATIONAL BUREAU OF STANDARDS	73,947	-	-	39,055	724	9,318	23,762	1,088	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	188,516	58,693	-	7,253	118,566	1,348	2,142	514	-
NAT'L TELECOMM & INFORMATION ADMIN	10,100	134	-	-	-	1,760	6,109	30	2,067
OFFICE OF THE SECRETARY	22	-	-	22	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	2,952,821	208,840	83,491	688,740	204,613	188,098	1,473,274	4,845	100,920
DEPARTMENT OF THE ARMY	639,223	119,396	32,280	142,868	23,510	18,811	297,213	1,242	3,903
DEPARTMENT OF THE NAVY	778,700	26,022	20,281	221,724	90,084	40,418	377,961	2,210	-
DEPARTMENT OF THE AIR FORCE	633,900	47,983	26,930	84,702	46,989	39,249	387,293	-	754
DEFENSE AGENCIES	900,998	15,439	4,000	239,446	44,030	89,620	410,807	1,393	96,263
DEPARTMENT OF EDUCATION	70,467	15,563	2,771	-	-	-	7,241	35,039	9,853
DEPARTMENT OF ENERGY	1,696,088	162,393	-	1,013,658	79,356	15,105	420,776	3,405	1,395
DEPT OF HLTH & HUMAN SERVICES, TOTAL	3,605,584	3,107,039	111,776	70,757	-	9,370	41,369	126,210	139,063
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	246,056	134,227	74,652	600	-	510	-	29,641	6,426
CENTERS FOR DISEASE CONTROL	75,039	75,039	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	73,000	73,000	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	29,083	-	-	-	-	-	-	29,083	-
HEALTH RESOURCES AND SERVICES ADMINISTRATION	6,698	1,541	-	-	-	-	-	-	5,157
HUMAN DEVELOPMENT SERVICES	8,733	-	-	-	-	-	-	8,733	-
NATIONAL INSTITUTES OF HEALTH	3,124,452	2,823,232	37,124	70,157	-	8,860	41,369	16,230	127,480
OFFICE OF ASST'T SECY FOR HEALTH	13,899	-	-	-	-	-	-	13,899	-
OFFICE OF THE SECRETARY	13,085	-	-	-	-	-	-	13,085	-
SOCIAL SECURITY ADMINISTRATION	15,539	-	-	-	-	-	-	15,539	-
DEPT OF HOUSING & URBAN DEVELOPMENT	10,310	-	-	-	-	-	1,134	9,176	-
DEPARTMENT OF THE INTERIOR, TOTAL	351,460	94,923	-	18,320	145,720	3,182	87,135	2,170	10
BUREAU OF LAND MANAGEMENT	2,388	2,124	-	-	264	-	-	-	-
BUREAU OF MINES	81,094	-	-	10,070	-	-	71,024	-	-
BUREAU OF RECLAMATION	8,983	350	-	-	5,049	-	3,530	54	-
GEOLOGICAL SURVEY	152,060	-	-	6,765	134,604	2,486	8,205	-	-
NATIONAL PARK SERVICE	11,203	6,579	-	62	3,082	3	63	1,404	10
OFFICE OF THE SECRETARY	480	-	-	-	153	109	-	218	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1,500	378	-	58	528	219	293	74	-
OFFICE OF WATER RSCH & TECHNOLOGY	10,105	1,845	-	1,365	2,040	365	4,020	470	-
US FISH & WILDLIFE SERVICE	83,647	83,647	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	16,305	-	1,543	400	-	-	1,150	12,812	-
DRUG ENFORCEMENT ADMINISTRATION	1,300	-	-	400	-	-	900	-	-
FEDERAL PRISON SYSTEM	948	-	250	-	-	-	-	698	-
IMMIGRATION & NATURALIZATION SVC	250	-	-	-	-	-	250	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	13,415	-	1,693	-	-	-	-	11,722	-
OFFICE OF LEGAL POLICY	392	-	-	-	-	-	-	392	-
DEPARTMENT OF LABOR, TOTAL	17,155	-	-	-	-	-	-	17,155	-
BUREAU OF LABOR STATISTICS	291	-	-	-	-	-	-	291	-
EMPLOYMENT STANDARDS ADMINISTRATION	1,400	-	-	-	-	-	-	1,400	-
EMPLOYMENT AND TRAINING ADMIN	8,654	-	-	-	-	-	-	8,654	-
LABOR-MANAGEMENT SERVICES ADMIN	715	-	-	-	-	-	-	715	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	4,900	-	-	-	-	-	-	4,900	-
OFFICE OF THE SECRETARY	900	-	-	-	-	-	-	900	-
PENSION BENEFIT GUARANTEE CORPORATION	295	-	-	-	-	-	-	295	-

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TABLE C-19. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY- CHOLOGY	PHYSICAL SCIENCES	ENVIRON- MENTAL SCIENCES	MATHE- MATICS AND COM- PUTER SCIENCES	ENGI- NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF STATE, TOTAL	1,549	-	-	-	143	-	-	1,406	-
DEPARTMENTAL FUNDS	1,549	-	-	-	143	-	-	1,406	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	66,685	3,987	250	1,194	922	912	48,318	10,961	141
COAST GUARD	1,650	-	250	600	-	200	400	200	-
FEDERAL AVIATION ADMINISTRATION	7,000	-	-	-	-	-	7,000	-	-
FEDERAL HIGHWAY ADMINISTRATION	5,300	259	-	594	922	300	2,981	103	141
FEDERAL RAILROAD ADMINISTRATION	3,100	-	-	-	-	12	3,084	4	-
MARITIME ADMINISTRATION	6,600	-	-	-	-	400	6,000	200	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	21,300	3,728	-	-	-	-	8,590	8,982	-
OFFICE OF THE SECRETARY	260	-	-	-	-	-	60	200	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	2,100	-	-	-	-	-	1,098	1,002	-
URBAN MASS TRANSPORTATION ADMIN	19,375	-	-	-	-	-	19,105	270	-
DEPARTMENT OF THE TREASURY, TOTAL	8,145	-	-	2,772	-	3,077	97	2,199	-
BUREAU OF ENGRAVING AND PRINTING ...	2,821	-	-	2,724	-	-	97	-	-
INTERNAL REVENUE SERVICE	5,276	-	-	-	-	3,077	-	2,199	-
UNITED STATES CUSTOMS SERVICE	48	-	-	48	-	-	-	-	-
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	2,033	-	-	-	-	-	-	2,033	-
AGENCY FOR INTERNAT'L DEVELOPMENT	127,904	113,879	-	-	-	1,426	12,117	482	-
APPALACHIAN REGIONAL COMMISSION	300	-	-	-	-	-	-	300	-
CONSUMER PRODUCT SAFETY COMMISSION ...	56	56	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	243,379	82,038	575	20,390	48,933	3,700	76,428	2,795	8,520
FEDERAL COMMUNICATIONS COMMISSION	1,244	-	-	-	-	-	788	376	80
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	9,212	638	412	2,020	453	594	3,128	1,312	655
FEDERAL HOME LOAN BANK BOARD	2,701	-	-	-	-	-	-	2,701	-
FEDERAL TRADE COMMISSION	1,188	-	-	-	-	-	-	1,188	-
GENERAL SERVICES ADMINISTRATION	537	-	-	-	-	-	537	-	-
INTERNATIONAL TRADE COMMISSION	3,764	-	-	-	-	-	-	3,764	-
LIBRARY OF CONGRESS	860	-	-	-	-	-	-	-	860
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,407,140	53,165	2,115	289,544	260,616	25,965	771,703	63	1,969
NATIONAL SCIENCE FOUNDATION	973,165	173,259	8,271	272,607	269,814	66,237	129,867	31,636	21,474
NUCLEAR REGULATORY COMMISSION	220,287	-	-	-	-	-	220,287	-	-
SMITHSONIAN INSTITUTION	52,357	20,442	-	7,914	3,845	-	-	20,156	-
TENNESSEE VALLEY AUTHORITY	12,700	3,700	-	3,000	948	-	5,052	-	-
US ARMS CONTROL & DISARMAMENT AGENCY ..	1,271	-	-	533	171	42	254	271	-
VETERANS ADMINISTRATION	123,000	113,886	6,415	-	-	-	2,699	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-20. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY- CHOLOGY	PHYSICAL SCIENCES	ENVIRON- MENTAL SCIENCES	MATHE- MATICS AND COM- PUTER SCIENCES	ENGI- NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	14,154,328	5,133,015	241,425	2,851,741	1,218,581	399,429	3,501,489	425,502	383,146
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	822,465	575,064	178	67,934	13,256	19,649	53,875	92,509	-
AGRICULTURAL COOPERATIVE SERVICE ...	1,716	-	-	-	-	-	-	1,716	-
AGRICULTURAL MARKETING SERVICE	1,250	1,250	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	419,335	328,256	-	52,305	2,944	1,514	32,981	1,335	-
COOPERATIVE STATE RESEARCH SERVICE ..	234,949	166,761	-	10,897	1,364	-	7,471	48,456	-
ECONOMIC RESEARCH SERVICE	38,964	-	-	-	-	5,944	-	33,020	-
FOREST SERVICE	101,346	62,292	178	4,732	8,948	3,791	13,423	7,982	-
HUMAN NUTRITION INFORMATION SERVICE ..	8,200	7,700	-	-	-	500	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	8,098	8,098	-	-	-	-	-	-	-
OFFICE OF TRANSPORTATION	707	707	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	7,900	-	-	-	-	7,900	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	280,127	59,580	245	49,923	114,339	13,671	37,490	3,058	1,821
BUREAU OF THE CENSUS	2,230	-	245	-	-	1,519	-	425	41
ECONOMIC DEVELOPMENT ADMINISTRATION ..	2,000	-	-	-	-	-	-	2,000	-
NATIONAL BUREAU OF STANDARDS	80,080	-	-	40,407	279	8,921	30,273	200	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	187,417	59,580	-	9,016	114,060	1,915	2,429	417	-
NAT'L TELECOMM & INFORMATION ADMIN ..	7,900	-	-	-	-	1,316	4,788	16	1,780
OFFICE OF THE SECRETARY	500	-	-	500	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	3,161,524	227,614	88,457	760,035	256,110	213,758	1,481,085	5,804	128,661
DEPARTMENT OF THE ARMY	652,949	134,547	35,172	131,577	24,238	16,827	292,761	1,232	16,595
DEPARTMENT OF THE NAVY	821,900	25,451	21,740	230,879	91,692	48,813	389,917	2,136	11,272
DEPARTMENT OF THE AIR FORCE	656,600	49,310	29,193	88,096	49,978	41,234	398,003	-	784
DEFENSE AGENCIES	1,030,075	18,306	2,352	309,483	90,202	106,884	400,404	2,436	100,008
DEPARTMENT OF EDUCATION	78,094	15,891	2,975	-	-	-	7,773	38,390	13,065
DEPARTMENT OF ENERGY	1,968,600	146,587	-	1,177,336	89,663	22,862	477,009	7,747	47,396
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	3,972,742	3,418,911	124,245	77,975	-	10,323	45,592	142,397	153,299
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	282,413	154,902	83,378	697	-	531	-	34,092	8,813
CENTERS FOR DISEASE CONTROL	71,566	71,566	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	76,600	76,600	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	30,000	-	-	-	-	-	-	30,000	-
HEALTH RESOURCES AND SERVICES ADMINISTRATION	8,350	3,200	-	-	-	-	-	-	5,150
HUMAN DEVELOPMENT SERVICES	7,363	-	-	-	-	-	-	7,363	-
NATIONAL INSTITUTES OF HEALTH	3,443,324	3,112,643	40,867	77,278	-	9,792	45,592	17,816	139,336
OFFICE OF ASST'T SECY FOR HEALTH ..	14,618	-	-	-	-	-	-	14,618	-
OFFICE OF THE SECRETARY	14,218	-	-	-	-	-	-	14,218	-
SOCIAL SECURITY ADMINISTRATION	24,290	-	-	-	-	-	-	24,290	-
DEPT OF HOUSING & URBAN DEVELOPMENT ..	11,936	-	-	-	-	-	1,313	10,623	-
DEPARTMENT OF THE INTERIOR, TOTAL	368,760	97,529	-	18,933	148,775	3,275	98,345	1,893	10
BUREAU OF LAND MANAGEMENT	1,947	1,692	-	-	255	-	-	-	-
BUREAU OF MINES	93,836	-	-	10,450	-	-	83,386	-	-
BUREAU OF RECLAMATION	8,940	311	-	-	3,903	-	4,691	35	-
GEOLOGICAL SURVEY	150,290	-	-	7,340	134,199	2,825	5,926	-	-
MINERAL MANAGEMENT SERVICE	1,500	-	-	-	-	-	1,500	-	-
NATIONAL PARK SERVICE	11,806	7,425	-	63	3,022	3	57	1,226	10
OFFICE OF THE SECRETARY	6,770	-	-	-	6,388	127	-	255	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1,478	615	-	70	198	60	465	70	-
OFFICE OF WATER RSCH & TECHNOLOGY ..	6,017	1,310	-	1,010	810	260	2,320	307	-
US FISH & WILDLIFE SERVICE	86,176	86,176	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	23,829	-	2,890	200	-	-	950	19,789	-
DRUG ENFORCEMENT ADMINISTRATION	400	-	-	200	-	-	600	-	-
FEDERAL PRISON SYSTEM	1,100	-	250	-	-	-	-	850	-
IMMIGRATION & NATURALIZATION SVC ..	350	-	-	-	-	-	350	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT ..	20,987	-	2,640	-	-	-	-	18,347	-
OFFICE OF LEGAL POLICY	592	-	-	-	-	-	-	592	-
DEPARTMENT OF LABOR, TOTAL	15,869	-	-	-	-	-	-	15,869	-
BUREAU OF LABOR STATISTICS	315	-	-	-	-	-	-	315	-
EMPLOYMENT STANDARDS ADMINISTRATION ..	2,000	-	-	-	-	-	-	2,000	-
EMPLOYMENT AND TRAINING ADMIN	5,834	-	-	-	-	-	-	5,834	-
LABOR-MANAGEMENT SERVICES ADMIN	751	-	-	-	-	-	-	751	-
OCCUPATIONAL SAFETY & HEALTH ADMIN ..	5,700	-	-	-	-	-	-	5,700	-
OFFICE OF THE SECRETARY	1,000	-	-	-	-	-	-	1,000	-
PENSION BENEFIT GUARANTEE CORPORATION	269	-	-	-	-	-	-	269	-

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TABLE C-20. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY- CHOLOGY	PHYSICAL SCIENCES	ENVIRON- MENTAL SCIENCES	MATHE- MATICS AND COM- PUTER SCIENCES	ENGI- NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF STATE, TOTAL	1,596	-	-	-	140	-	-	1,456	-
DEPARTMENTAL FUNDS	1,596	-	-	-	140	-	-	1,456	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	78,597	4,491	100	2,050	950	841	57,814	12,201	150
COAST GUARD	1,650	-	100	1,400	-	-	-	150	-
FEDERAL AVIATION ADMINISTRATION	12,500	-	-	-	-	-	12,500	-	-
FEDERAL HIGHWAY ADMINISTRATION	7,100	500	-	650	950	323	4,427	100	150
FEDERAL RAILROAD ADMINISTRATION	5,100	-	-	-	-	18	5,075	7	-
MARITIME ADMINISTRATION	8,650	-	-	-	-	500	7,750	400	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	22,800	3,991	-	-	-	-	9,198	9,611	-
OFFICE OF THE SECRETARY	263	-	-	-	-	-	50	213	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	2,500	-	-	-	-	-	1,280	1,220	-
URBAN MASS TRANSPORTATION ADMIN	18,034	-	-	-	-	-	17,534	500	-
DEPARTMENT OF THE TREASURY, TOTAL	11,245	-	-	2,868	-	4,447	102	3,828	-
BUREAU OF ENGRAVING AND PRINTING ...	2,970	-	-	2,868	-	-	102	-	-
INTERNAL REVENUE SERVICE	8,275	-	-	-	-	4,447	-	3,828	-
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,956	-	-	-	-	-	-	1,956	-
AGENCY FOR INTERNAT'L DEVELOPMENT	117,287	104,821	-	-	-	490	11,131	845	-
APPALACHIAN REGIONAL COMMISSION	300	-	-	-	-	-	-	300	-
CONSUMER PRODUCT SAFETY COMMISSION	302	302	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	173,894	63,868	654	15,824	33,460	3,682	46,915	2,167	7,324
FEDERAL COMMUNICATIONS COMMISSION	1,212	-	-	-	-	-	948	264	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	3,675	329	266	459	292	221	838	847	423
FEDERAL HOME LOAN BANK BOARD	2,988	-	-	-	-	-	-	2,988	-
FEDERAL TRADE COMMISSION	1,739	-	-	-	-	-	-	1,739	-
GENERAL SERVICES ADMINISTRATION	445	-	-	-	-	250	195	-	-
INTERNATIONAL TRADE COMMISSION	3,989	-	-	-	-	-	-	3,989	-
LIBRARY OF CONGRESS	1,121	-	-	-	-	-	-	-	1,121
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,561,535	66,087	2,430	370,924	266,773	33,696	819,325	100	2,200
NATIONAL SCIENCE FOUNDATION	1,060,200	193,174	9,185	294,285	289,378	72,264	139,483	34,755	27,676
NUCLEAR REGULATORY COMMISSION	209,500	-	-	-	-	-	209,500	-	-
SMITHSONIAN INSTITUTION	55,749	22,534	-	9,242	4,289	-	-	19,684	-
TENNESSEE VALLEY AUTHORITY	15,500	3,700	-	3,400	986	-	7,414	-	-
US ARMS CONTROL & DISARMAMENT AGENCY ..	1,152	-	-	353	170	-	325	304	-
VETERANS ADMINISTRATION	146,400	132,533	9,800	-	-	-	4,067	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-21. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1984 (ESTIMATED)
(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON- MENTAL SCIENCES	MATHE- MATICS AND COM- PUTER SCIENCES	ENGI- NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	14,663,239	5,251,028	271,714	3,178,837	1,188,635	481,591	3,486,898	432,280	372,256
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	818,898	570,596	174	69,153	12,846	20,232	52,986	92,911	-
AGRICULTURAL COOPERATIVE SERVICE ...	1,360	-	-	-	-	-	-	1,360	-
AGRICULTURAL RESEARCH SERVICE	430,566	337,063	-	54,531	3,011	1,534	33,125	1,302	-
COOPERATIVE STATE RESEARCH SERVICE ..	221,715	159,075	-	10,011	1,253	-	6,863	44,513	-
ECONOMIC RESEARCH SERVICE	45,024	-	-	-	-	6,868	-	38,156	-
FOREST SERVICE	97,744	60,169	174	4,611	8,582	3,630	12,998	7,580	-
HUMAN NUTRITION INFORMATION SERVICE ..	6,600	6,600	-	-	-	-	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	6,939	6,939	-	-	-	-	-	-	-
OFFICE OF TRANSPORTATION	750	750	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	8,200	-	-	-	-	8,200	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	199,693	28,851	250	47,090	78,739	12,706	28,974	961	2,122
BUREAU OF THE CENSUS	2,277	-	250	-	-	1,549	-	436	42
NATIONAL BUREAU OF STANDARDS	70,802	-	-	38,758	289	8,222	23,326	207	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	118,614	28,851	-	7,632	78,450	1,619	1,744	318	-
NAT'L TELECOMM & INFORMATION ADMIN ..	7,300	-	-	-	-	1,316	3,904	-	2,080
OFFICE OF THE SECRETARY	700	-	-	700	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	3,572,179	241,628	107,384	928,670	258,345	260,265	1,618,059	4,256	153,572
DEPARTMENT OF THE ARMY	745,913	140,093	47,066	140,132	27,840	20,711	353,264	1,722	15,085
DEPARTMENT OF THE NAVY	883,000	26,575	21,229	251,686	97,472	51,595	421,311	2,012	11,120
DEPARTMENT OF THE AIR FORCE	732,600	55,160	38,269	101,564	55,910	47,189	433,689	-	819
DEFENSE AGENCIES	1,210,666	19,800	820	435,288	77,123	140,770	409,795	522	126,348
DEPARTMENT OF EDUCATION	71,189	16,001	2,975	-	-	-	7,773	33,549	10,891
DEPARTMENT OF ENERGY	1,830,608	151,303	-	1,251,172	77,458	21,462	309,502	2,769	16,942
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	4,093,698	3,518,207	134,671	81,860	-	10,590	46,618	147,778	153,974
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	318,862	172,903	92,924	2,700	-	579	-	37,667	12,089
CENTERS FOR DISEASE CONTROL	76,757	76,757	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	82,100	82,100	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	30,000	-	-	-	-	-	-	30,000	-
HEALTH RESOURCES AND SERVICES ADMINISTRATION	1,200	1,200	-	-	-	-	-	-	-
HUMAN DEVELOPMENT SERVICES	5,955	-	-	-	-	-	-	5,955	-
NATIONAL INSTITUTES OF HEALTH	3,522,808	3,185,247	41,747	79,160	-	10,011	46,618	18,140	141,885
OFFICE OF ASST'T SECY FOR HEALTH ...	16,243	-	-	-	-	-	-	16,243	-
OFFICE OF THE SECRETARY	10,500	-	-	-	-	-	-	10,500	-
SOCIAL SECURITY ADMINISTRATION	29,273	-	-	-	-	-	-	29,273	-
DEPT OF HOUSING & URBAN DEVELOPMENT ..	10,089	-	-	-	-	-	1,109	8,980	-
DEPARTMENT OF THE INTERIOR, TOTAL	310,448	90,393	-	20,463	129,682	3,433	64,075	2,402	-
BUREAU OF LAND MANAGEMENT	1,800	1,550	-	-	250	-	-	-	-
BUREAU OF MINES	65,353	-	-	11,600	-	-	53,753	-	-
BUREAU OF RECLAMATION	9,648	323	-	-	4,885	-	4,404	36	-
GEOLOGICAL SURVEY	136,037	-	-	8,540	120,531	3,065	3,901	-	-
MINERAL MANAGEMENT SERVICE	1,500	-	-	-	-	-	1,500	-	-
NATIONAL PARK SERVICE	12,500	7,500	-	-	3,500	-	-	1,500	-
OFFICE OF THE SECRETARY	1,620	-	-	-	516	368	-	736	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	970	-	-	323	-	-	517	130	-
US FISH & WILDLIFE SERVICE	81,020	81,020	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	14,445	-	1,100	200	-	-	850	12,295	-
DRUG ENFORCEMENT ADMINISTRATION	800	-	-	200	-	-	600	-	-
FEDERAL PRISON SYSTEM	850	-	250	-	-	-	-	600	-
IMMIGRATION & NATURALIZATION SVC ...	250	-	-	-	-	-	250	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT ..	12,020	-	850	-	-	-	-	11,170	-
OFFICE OF LEGAL POLICY	525	-	-	-	-	-	-	525	-
DEPARTMENT OF LABOR, TOTAL	17,270	-	-	-	-	-	-	17,270	-
BUREAU OF LABOR STATISTICS	377	-	-	-	-	-	-	377	-
EMPLOYMENT STANDARDS ADMINISTRATION ..	1,250	-	-	-	-	-	-	1,250	-
EMPLOYMENT AND TRAINING ADMIN	6,675	-	-	-	-	-	-	6,675	-
LABOR-MANAGEMENT SERVICES ADMIN	1,786	-	-	-	-	-	-	1,786	-
OCCUPATIONAL SAFETY & HEALTH ADMIN ..	5,700	-	-	-	-	-	-	5,700	-
OFFICE OF THE SECRETARY	1,200	-	-	-	-	-	-	1,200	-
PENSION BENEFIT GUARANTEE CORPORATION	282	-	-	-	-	-	-	282	-

CONTINUED ON NEXT PAGE

TABLE C-21. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1984 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY- CHOLOGY	PHYSICAL SCIENCES	ENVIRON- MENTAL SCIENCES	MATHE- MATICS AND COM- PUTER SCIENCES	ENGI- NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF STATE, TOTAL	1,608	-	-	-	240	-	-	1,368	-
DEPARTMENTAL FUNDS	1,608	-	-	-	240	-	-	1,368	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	81,186	4,121	350	1,450	850	760	61,741	11,814	100
COAST GUARD	3,850	-	150	950	100	-	2,100	550	-
FEDERAL AVIATION ADMINISTRATION	23,200	-	-	-	-	-	23,200	-	-
FEDERAL HIGHWAY ADMINISTRATION	6,400	200	-	500	750	450	4,300	100	100
FEDERAL RAILROAD ADMINISTRATION	2,900	-	200	-	-	10	2,690	-	-
MARITIME ADMINISTRATION	6,500	-	-	-	-	300	6,000	200	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	22,400	3,921	-	-	-	-	9,036	9,443	-
OFFICE OF THE SECRETARY	471	-	-	-	-	-	50	421	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	1,800	-	-	-	-	-	1,100	700	-
URBAN MASS TRANSPORTATION ADMIN	13,665	-	-	-	-	-	13,265	400	-
DEPARTMENT OF THE TREASURY, TOTAL	11,645	-	-	2,911	-	4,810	104	3,820	-
BUREAU OF ENGRAVING AND PRINTING ...	3,015	-	-	2,911	-	-	104	-	-
INTERNAL REVENUE SERVICE	8,630	-	-	-	-	4,810	-	3,820	-
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	2,036	-	-	-	-	-	-	2,036	-
AGENCY FOR INTERNAT'L DEVELOPMENT	140,645	122,010	-	-	-	600	17,218	817	-
CONSUMER PRODUCT SAFETY COMMISSION ...	107	107	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	148,631	56,424	606	13,106	28,395	3,378	27,795	10,336	8,591
FEDERAL COMMUNICATIONS COMMISSION	1,002	-	-	-	-	-	920	82	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	13,000	1,163	941	1,624	1,034	783	2,963	2,996	1,496
FEDERAL HOME LOAN BANK BOARD	3,103	-	-	-	-	-	-	3,103	-
FEDERAL TRADE COMMISSION	1,688	-	-	-	-	-	-	1,688	-
GENERAL SERVICES ADMINISTRATION	1,200	-	-	-	-	950	250	-	-
INTERNATIONAL TRADE COMMISSION	4,385	-	-	-	-	-	-	4,385	-
LIBRARY OF CONGRESS	1,203	-	-	-	-	-	-	-	1,203
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,646,880	66,047	2,591	389,087	260,961	55,812	870,082	100	2,200
NATIONAL SCIENCE FOUNDATION	1,240,465	228,746	9,713	353,506	334,439	85,810	167,627	39,459	21,165
NUCLEAR REGULATORY COMMISSION	199,740	-	-	-	-	-	199,740	-	-
SMITHSONIAN INSTITUTION	63,618	22,964	-	9,525	4,310	-	-	26,819	-
TENNESSEE VALLEY AUTHORITY	13,200	4,100	-	3,700	1,170	-	4,230	-	-
US ARMS CONTROL & DISARMAMENT AGENCY ..	6,080	-	-	5,320	166	-	308	296	-
VETERANS ADMINISTRATION	143,300	128,367	10,959	-	-	-	3,974	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-22. FEDERAL OBLIGATIONS FOR RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES,
BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO- LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO- LOGICAL SCIENCES NEC	TOTAL	BIO- LOGICAL	ENVIRON- MENTAL BIOLOGY	AGRI- CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	218,396	59,586	98,099	60,711	4,745,499	2,079,260	183,532	548,978	1,773,025	160,704
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	185	-	185	-	530,864	62,133	52,655	403,124	12,952	-
AGRICULTURAL MARKETING SERVICE	-	-	-	-	1,008	-	-	1,008	-	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	296,788	19,616	12,001	261,392	3,779	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	155,611	17,070	-	129,368	9,173	-
FOREST SERVICE	185	-	185	-	66,101	25,447	40,654	-	-	-
HUMAN NUTRITION INFORMATION SERVICE	-	-	-	-	8,200	-	-	8,200	-	-
OFF OF INTERNAT'L COOPERATION & DEV	-	-	-	-	2,355	-	-	2,355	-	-
OFFICE OF TRANSPORTATION	-	-	-	-	801	-	-	801	-	-
DEPARTMENT OF COMMERCE, TOTAL	192	-	192	-	58,827	134	1,544	56,981	168	-
BUREAU OF THE CENSUS	192	-	192	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	-	-	-	-	58,693	-	1,544	56,981	168	-
NAT'L TELECOMM & INFORMATION ADMIN	-	-	-	-	134	134	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	83,491	118	68,775	14,598	208,840	42,272	10,520	228	119,228	36,592
DEPARTMENT OF THE ARMY	32,280	118	30,299	1,863	119,396	9,674	2,377	228	107,068	44
DEPARTMENT OF THE NAVY	20,281	-	7,766	12,515	26,022	14,168	2,083	-	9,771	-
DEPARTMENT OF THE AIR FORCE	26,930	-	26,930	-	47,983	5,023	5,730	-	767	36,463
DEFENSE AGENCIES	4,000	-	3,780	220	15,439	13,407	330	-	1,622	80
DEPARTMENT OF EDUCATION	2,771	-	-	2,771	15,563	-	-	-	11,785	3,778
DEPARTMENT OF ENERGY	-	-	-	-	162,393	109,814	-	4,063	22,104	26,412
DEPT OF HLTH & HUMAN SERVICES, TOTAL	111,776	46,536	23,112	42,128	3,107,039	1,588,894	238	-	1,427,458	90,449
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	74,652	46,536	23,112	5,004	134,227	79,049	-	-	45,082	10,096
CENTERS FOR DISEASE CONTROL	-	-	-	-	75,039	-	-	-	75,039	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	73,000	43,800	-	-	29,200	-
HEALTH RESOURCES AND SERVICES ADMINISTRATION	-	-	-	-	1,541	-	-	-	1,541	-
NATIONAL INSTITUTES OF HEALTH	37,124	-	-	37,124	2,823,232	1,466,045	238	-	1,276,596	80,353
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	-	-	94,923	54,255	33,012	7,656	-	-
BUREAU OF LAND MANAGEMENT	-	-	-	-	2,124	-	283	1,841	-	-
BUREAU OF RECLAMATION	-	-	-	-	350	350	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	6,579	2,267	-	4,312	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	-	-	-	-	378	-	-	378	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	-	-	-	-	1,845	150	570	1,125	-	-
US FISH & WILDLIFE SERVICE	-	-	-	-	83,647	51,488	32,159	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	1,943	-	1,943	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	250	-	250	-	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	1,693	-	1,693	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	250	-	-	250	3,987	3,728	53	-	-	206
COAST GUARD	250	-	-	250	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	-	-	-	-	259	-	53	-	-	206
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	-	-	-	-	3,728	3,728	-	-	-	-
OTHER AGENCIES										
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	113,879	13,019	-	59,833	41,027	-
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	56	56	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	575	514	61	-	82,038	42,701	21,698	1,519	16,120	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	412	-	412	-	638	129	282	-	227	-
NATIONAL AERONAUTICS & SPACE ADMIN	2,115	226	1,122	767	55,165	17,055	851	11,721	22,433	3,105
NATIONAL SCIENCE FOUNDATION	8,271	5,792	2,282	197	173,259	122,692	49,752	653	-	162
SMITHSONIAN INSTITUTION	-	-	-	-	20,442	8,015	12,427	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	3,700	-	500	3,200	-	-
VETERANS ADMINISTRATION	6,415	6,400	15	-	113,886	14,363	-	-	99,523	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-23. FEDERAL OBLIGATIONS FOR RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY
AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO- LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO- LOGICAL SCIENCES NEC	TOTAL	BIO- LOGICAL	ENVIRON- MENTAL BIOLOGY	AGRI- CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	241,425	68,877	107,456	65,092	5,133,015	2,243,547	193,149	596,996	1,935,770	163,553
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	178	-	178	-	575,064	63,343	51,346	446,294	14,081	-
AGRICULTURAL MARKETING SERVICE	-	-	-	-	1,250	-	-	1,250	-	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	328,256	21,898	13,243	288,951	4,164	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	166,761	17,256	-	139,588	9,917	-
FOREST SERVICE	178	-	178	-	62,292	24,189	38,103	-	-	-
HUMAN NUTRITION INFORMATION SERVICE	-	-	-	-	7,700	-	-	7,700	-	-
OFF OF INTERNAT'L COOPERATION & DEV	-	-	-	-	8,098	-	-	8,098	-	-
OFFICE OF TRANSPORTATION	-	-	-	-	707	-	-	707	-	-
DEPARTMENT OF COMMERCE, TOTAL	245	-	245	-	59,580	-	-	59,580	-	-
BUREAU OF THE CENSUS	245	-	245	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	-	-	-	-	59,580	-	-	59,580	-	-
DEPARTMENT OF DEFENSE, TOTAL	88,457	58	73,263	15,136	227,614	43,100	12,437	219	134,789	37,069
DEPARTMENT OF THE ARMY	35,172	58	32,559	2,555	134,547	8,698	2,431	219	123,159	40
DEPARTMENT OF THE NAVY	21,740	-	9,464	12,276	25,451	13,978	2,607	-	8,866	-
DEPARTMENT OF THE AIR FORCE	29,193	-	29,193	-	49,310	5,427	6,075	-	779	37,029
DEFENSE AGENCIES	2,352	-	2,047	305	18,306	14,997	1,324	-	1,985	-
DEPARTMENT OF EDUCATION	2,975	-	-	2,975	15,891	-	-	-	13,381	2,510
DEPARTMENT OF ENERGY	-	-	-	-	146,587	94,756	-	9,000	21,522	21,309
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	124,245	52,324	26,034	45,887	3,418,911	1,758,462	240	-	1,561,184	99,025
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	83,378	52,324	26,034	5,020	154,902	92,995	-	-	51,449	10,458
CENTERS FOR DISEASE CONTROL	-	-	-	-	71,566	-	-	-	71,566	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	76,600	45,960	-	-	30,640	-
HEALTH RESOURCES AND SERVICES ADMINISTRATION	-	-	-	-	3,200	-	-	-	3,200	-
NATIONAL INSTITUTES OF HEALTH	40,867	-	-	40,867	3,112,643	1,619,507	240	-	1,404,329	88,567
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	-	-	97,529	56,240	38,326	2,963	-	-
BUREAU OF LAND MANAGEMENT	-	-	-	-	1,692	-	84	1,608	-	-
BUREAU OF RECLAMATION	-	-	-	-	311	311	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	7,425	2,036	5,389	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	-	-	-	-	615	70	70	475	-	-
OFFICE OF WATER RSCH & TECHNOLOGY ..	-	-	-	-	1,310	210	220	880	-	-
US FISH & WILDLIFE SERVICE	-	-	-	-	86,176	53,613	32,563	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	2,890	-	2,890	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	250	-	250	-	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	2,640	-	2,640	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	100	-	100	-	4,491	3,991	75	-	200	225
COAST GUARD	100	-	100	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	-	-	-	-	500	-	75	-	200	225
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	-	-	-	-	3,991	3,991	-	-	-	-
OTHER AGENCIES										
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	104,821	11,650	464	59,406	33,301	-
CONSUMER PRODUCT SAFETY COMMISSION ...	-	-	-	-	302	302	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	654	597	57	-	63,868	31,201	18,133	2,481	12,053	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ...	266	-	266	-	329	-	182	-	147	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	2,430	250	1,330	850	66,087	21,575	1,356	12,801	27,255	3,100
NATIONAL SCIENCE FOUNDATION	9,185	5,862	3,079	244	193,174	135,328	56,879	652	-	315
SMITHSONIAN INSTITUTION	-	-	-	-	22,534	8,923	13,611	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	3,700	-	100	3,600	-	-
VETERANS ADMINISTRATION	9,800	9,786	14	-	132,533	14,676	-	-	117,857	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-24. FEDERAL OBLIGATIONS FOR RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY
AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1984 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO- LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO- LOGICAL SCIENCES NEC	TOTAL	BIO- LOGICAL	ENVIRON- MENTAL BIOLOGY	AGRI- CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	271,714	76,015	127,131	68,568	5,251,028	2,307,727	203,673	584,305	1,985,317	170,006
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	174	-	174	-	570,596	62,852	50,023	444,448	13,273	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	337,063	23,199	13,492	296,159	4,213	-
COOPERATIVE STATE RESEARCH SERVICE ..	-	-	-	-	159,075	16,015	-	134,000	9,060	-
FOREST SERVICE	174	-	174	-	60,169	23,638	36,531	-	-	-
HUMAN NUTRITION INFORMATION SERVICE	-	-	-	-	6,600	-	-	6,600	-	-
OFF OF INTERNAT'L COOPERATION & DEV	-	-	-	-	6,939	-	-	6,939	-	-
OFFICE OF TRANSPORTATION	-	-	-	-	750	-	-	750	-	-
DEPARTMENT OF COMMERCE, TOTAL	250	-	250	-	28,851	-	-	28,851	-	-
BUREAU OF THE CENSUS	250	-	250	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	-	-	-	-	28,851	-	-	28,851	-	-
DEPARTMENT OF DEFENSE, TOTAL	107,384	60	91,814	15,510	241,428	45,000	11,860	1,392	142,892	40,484
DEPARTMENT OF THE ARMY	47,066	60	44,511	2,495	140,093	6,316	1,179	1,392	131,166	40
DEPARTMENT OF THE NAVY	21,229	-	8,608	12,621	26,575	15,308	2,187	-	9,080	-
DEPARTMENT OF THE AIR FORCE	38,269	-	38,269	-	55,160	7,109	6,936	-	847	40,268
DEFENSE AGENCIES	820	-	426	394	19,800	16,267	1,558	-	1,799	176
DEPARTMENT OF EDUCATION	2,975	-	-	2,975	16,001	-	-	-	13,491	2,510
DEPARTMENT OF ENERGY	-	-	-	-	151,303	88,830	-	19,500	22,915	20,058
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	134,671	56,776	29,112	48,783	3,518,207	1,811,503	270	-	1,602,887	103,547
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	92,924	56,776	29,112	7,036	172,903	103,242	-	-	56,733	12,928
CENTERS FOR DISEASE CONTROL	-	-	-	-	76,757	-	-	-	76,757	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	82,100	49,260	-	-	32,840	-
HEALTH RESOURCES AND SERVICES ADMINISTRATION	-	-	-	-	1,200	-	-	-	1,200	-
NATIONAL INSTITUTES OF HEALTH	41,747	-	-	41,747	3,185,247	1,659,001	270	-	1,435,357	90,619
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	-	-	90,393	47,143	41,850	1,400	-	-
BUREAU OF LAND MANAGEMENT	-	-	-	-	1,550	-	150	1,400	-	-
BUREAU OF RECLAMATION	-	-	-	-	323	323	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	7,500	-	7,500	-	-	-
US FISH & WILDLIFE SERVICE	-	-	-	-	81,020	46,820	34,200	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	1,100	-	1,100	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	250	-	250	-	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	850	-	850	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	350	-	150	200	4,121	3,921	50	-	-	150
COAST GUARD	150	-	150	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	-	-	-	-	200	-	50	-	-	150
FEDERAL RAILROAD ADMINISTRATION	200	-	-	200	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	-	-	-	-	3,921	3,921	-	-	-	-
OTHER AGENCIES										
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	122,010	11,500	-	77,170	33,340	-
CONSUMER PRODUCT SAFETY COMMISSION ...	-	-	-	-	107	107	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	606	595	11	-	56,424	26,749	16,272	1,873	11,530	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	941	-	941	-	1,163	-	644	-	519	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	2,591	1,328	413	850	66,047	26,479	1,479	5,452	29,537	3,100
NATIONAL SCIENCE FOUNDATION	9,713	6,317	3,146	250	228,746	161,176	66,694	719	-	157
SMITHSONIAN INSTITUTION	-	-	-	-	22,964	9,033	13,931	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	4,100	-	600	3,500	-	-
VETERANS ADMINISTRATION	10,959	10,939	20	-	128,367	13,434	-	-	114,933	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-25. FEDERAL OBLIGATIONS FOR RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRON- OMY	CHEM- ISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOS- PHERIC	GEO- LOGICAL	OCEAN- OGRAPHY	ENVIRON- MENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	2,500,381	275,784	481,154	1,610,508	132,935	1,148,303	425,829	357,556	261,278	103,640
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	62,202	-	58,416	3,786	-	13,479	5,048	8,431	-	-
AGRICULTURAL RESEARCH SERVICE	47,077	-	44,738	2,339	-	2,665	1,940	725	-	-
COOPERATIVE STATE RESEARCH SERVICE ..	10,135	-	10,135	-	-	1,269	1,269	-	-	-
FOREST SERVICE	4,990	-	3,543	1,447	-	9,545	1,839	7,706	-	-
DEPARTMENT OF COMMERCE, TOTAL	46,330	540	13,041	32,749	-	119,290	53,434	2,484	62,952	420
NATIONAL BUREAU OF STANDARDS	39,055	540	11,465	27,050	-	724	285	319	-	120
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	7,253	-	1,554	5,699	-	118,566	53,149	2,165	62,952	300
OFFICE OF THE SECRETARY	22	-	22	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	688,740	16,989	118,147	445,990	107,614	204,613	86,496	36,234	68,291	13,592
DEPARTMENT OF THE ARMY	142,868	-	61,312	45,817	35,739	23,510	12,383	8,002	423	2,702
DEPARTMENT OF THE NAVY	221,724	11,655	29,310	165,042	15,717	90,084	11,669	5,136	63,739	9,540
DEPARTMENT OF THE AIR FORCE	84,702	5,334	27,252	49,715	2,401	46,989	39,609	7,380	-	-
DEFENSE AGENCIES	239,446	-	273	185,416	53,757	44,030	22,835	15,716	4,129	1,350
DEPARTMENT OF ENERGY	1,012,658	300	105,396	902,562	5,400	79,356	27,021	35,042	11,213	6,080
DEPT OF HLTH & HUMAN SERVICES, TOTAL	70,757	-	63,291	7,466	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	600	-	600	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	70,157	-	62,691	7,466	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	18,320	-	6,193	1,995	10,132	145,720	6,914	125,140	12,031	1,635
BUREAU OF LAND MANAGEMENT	-	-	-	-	-	264	30	234	-	-
BUREAU OF MINES	10,070	-	-	-	10,070	-	-	-	-	-
BUREAU OF RECLAMATION	-	-	-	-	-	5,049	4,933	-	114	-
GEOLOGICAL SURVEY	6,765	-	5,040	1,725	-	134,604	-	122,989	11,615	-
NATIONAL PARK SERVICE	62	-	-	-	62	3,082	1,951	69	300	762
OFFICE OF THE SECRETARY	-	-	-	-	-	153	-	-	-	153
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	58	-	58	-	-	528	-	528	-	-
OFFICE OF WATER RSCH & TECHNOLOGY ..	1,365	-	1,095	270	-	2,040	-	1,320	-	720
DEPARTMENT OF JUSTICE, TOTAL	400	-	-	-	400	-	-	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	400	-	-	-	400	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	-	143	-	-	143	-
DEPARTMENTAL FUNDS	-	-	-	-	-	143	-	-	143	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	1,194	-	700	494	-	922	108	530	-	284
COAST GUARD	600	-	600	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	594	-	100	494	-	922	108	530	-	284
DEPARTMENT OF THE TREASURY, TOTAL	2,772	-	1,070	145	1,557	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING ...	2,724	-	1,070	97	1,557	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	48	-	-	48	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	20,390	-	18,873	1,517	-	48,933	34,992	5,780	4,061	4,100
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	2,020	-	647	1,373	-	453	84	321	48	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	289,544	184,630	6,253	91,273	7,388	260,616	125,128	68,407	2,759	64,322
NATIONAL SCIENCE FOUNDATION	272,607	65,411	86,127	120,907	162	269,814	85,376	72,522	98,709	13,207
SMITHSONIAN INSTITUTION	7,914	7,914	-	-	-	3,845	141	2,665	1,039	-
TENNESSEE VALLEY AUTHORITY	3,000	-	3,000	-	-	948	948	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY ..	533	-	-	251	282	171	139	-	32	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-26. FEDERAL OBLIGATIONS FOR RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	2,851,741	328,805	476,960	1,867,016	178,960	1,219,581	425,862	398,423	264,746	129,550
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	67,934	-	63,983	3,951	-	13,256	5,244	8,012	-	-
AGRICULTURAL RESEARCH SERVICE	52,305	-	49,721	2,584	-	2,944	2,145	799	-	-
COOPERATIVE STATE RESEARCH SERVICE ..	10,897	-	10,897	-	-	1,364	1,364	-	-	-
FOREST SERVICE	4,732	-	3,365	1,367	-	8,948	1,735	7,213	-	-
DEPARTMENT OF COMMERCE, TOTAL	49,923	675	13,766	35,482	-	114,339	49,420	2,237	62,396	286
NATIONAL BUREAU OF STANDARDS	40,407	675	11,979	27,753	-	279	20	259	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	9,016	-	1,287	7,729	-	114,060	49,400	1,978	62,396	286
OFFICE OF THE SECRETARY	500	-	500	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	760,035	17,005	114,775	505,326	122,929	256,710	124,766	42,042	67,981	21,321
DEPARTMENT OF THE ARMY	131,577	-	53,507	49,163	28,907	24,238	12,588	3,368	420	2,862
DEPARTMENT OF THE NAVY	230,879	11,399	32,890	170,526	16,064	91,692	11,416	6,827	62,718	10,731
DEPARTMENT OF THE AIR FORCE	88,096	5,606	28,378	51,613	2,499	49,978	42,150	7,828	-	-
DEFENSE AGENCIES	309,483	-	-	234,024	75,459	90,202	58,612	19,019	4,843	7,728
DEPARTMENT OF ENERGY	1,177,336	390	88,858	1,057,764	30,324	89,663	23,732	47,753	6,101	12,077
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	77,975	-	69,846	8,129	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN ..	697	-	697	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	77,278	-	69,149	8,129	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	18,933	-	6,440	1,980	10,513	148,775	5,996	123,957	11,429	7,393
BUREAU OF LAND MANAGEMENT	-	-	-	-	-	255	5	250	-	-
BUREAU OF MINES	10,450	-	-	-	10,450	-	-	-	-	-
BUREAU OF RECLAMATION	-	-	-	-	-	3,903	3,743	-	160	-
GEOLOGICAL SURVEY	7,340	-	5,600	1,740	-	134,199	-	122,999	11,200	-
NATIONAL PARK SERVICE	63	-	-	-	63	3,022	2,148	-	69	805
OFFICE OF THE SECRETARY	-	-	-	-	-	6,388	-	-	-	6,388
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	70	-	70	-	-	198	-	198	-	-
OFFICE OF WATER RSCH & TECHNOLOGY ..	1,010	-	770	240	-	810	100	510	-	200
DEPARTMENT OF JUSTICE, TOTAL	200	-	-	-	200	-	-	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	200	-	-	-	200	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	-	140	-	-	70	70
DEPARTMENTAL FUNDS	-	-	-	-	-	140	-	-	70	70
DEPARTMENT OF TRANSPORTATION, TOTAL ..	2,050	-	1,550	500	-	950	150	500	-	300
COAST GUARD	1,400	-	1,400	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	650	-	150	500	-	950	150	500	-	300
DEPARTMENT OF THE TREASURY, TOTAL	2,868	-	1,127	102	1,639	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING ...	2,868	-	1,127	102	1,639	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	15,824	-	14,541	1,283	-	33,460	-	26,190	4,833	2,437
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	459	-	-	459	-	292	54	207	31	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	370,924	233,919	7,121	117,216	12,668	266,773	123,754	66,112	2,800	74,107
NATIONAL SCIENCE FOUNDATION	294,285	67,574	91,543	134,734	434	289,378	92,521	77,455	107,843	11,559
SMITHSONIAN INSTITUTION	9,242	9,242	-	-	-	4,289	155	2,972	1,162	-
TENNESSEE VALLEY AUTHORITY	3,400	-	3,400	-	-	986	-	986	-	-
US ARMS CONTROL & DISARMAMENT AGENCY ..	353	-	10	90	253	170	70	-	100	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-27. FEDERAL OBLIGATIONS FOR RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1984 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRON- OMY	CHEM- ISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOS- PHERIC	GEO- LOGICAL	OCEAN- OGRAPHY	ENVIRON- MENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	3,178,837	338,320	528,990	2,078,307	233,220	1,188,635	455,615	373,995	247,899	111,126
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	69,153	-	65,188	3,965	-	12,846	5,134	7,712	-	-
AGRICULTURAL RESEARCH SERVICE	54,531	-	51,892	2,639	-	3,011	2,204	807	-	-
COOPERATIVE STATE RESEARCH SERVICE ..	10,011	-	10,011	-	-	1,253	1,253	-	-	-
FOREST SERVICE	4,611	-	3,285	1,326	-	8,582	1,677	6,905	-	-
DEPARTMENT OF COMMERCE, TOTAL	47,090	704	13,221	33,165	-	78,739	44,414	1,568	32,545	212
NATIONAL BUREAU OF STANDARDS	38,758	704	11,430	26,624	-	289	21	268	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	7,632	-	1,091	6,541	-	78,450	44,393	1,300	32,545	212
OFFICE OF THE SECRETARY	700	-	700	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	928,670	17,396	135,676	602,988	172,410	258,345	111,073	47,162	74,161	25,949
DEPARTMENT OF THE ARMY	140,132	-	64,086	50,640	25,406	27,840	14,278	9,985	420	3,157
DEPARTMENT OF THE NAVY	251,686	10,637	39,282	183,348	18,419	97,472	11,957	7,242	67,045	11,228
DEPARTMENT OF THE AIR FORCE	101,564	6,759	32,508	59,892	2,605	55,910	47,041	8,869	-	-
DEFENSE AGENCIES	435,288	-	-	309,308	125,980	77,123	37,797	21,066	6,696	11,564
DEPARTMENT OF ENERGY	1,251,172	400	100,785	1,134,475	15,512	77,458	26,910	36,683	7,315	6,550
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	81,860	-	73,540	8,320	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	2,700	-	2,700	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	79,160	-	70,840	8,320	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	20,463	-	6,800	1,740	11,923	129,682	8,115	109,254	11,797	516
BUREAU OF LAND MANAGEMENT	-	-	-	-	-	250	-	250	-	-
BUREAU OF MINES	11,600	-	-	-	11,600	-	-	-	-	-
BUREAU OF RECLAMATION	-	-	-	-	-	4,885	4,715	-	170	-
GEOLOGICAL SURVEY	8,540	-	6,800	1,740	-	120,531	-	109,004	11,527	-
NATIONAL PARK SERVICE	-	-	-	-	-	3,500	3,400	-	100	-
OFFICE OF THE SECRETARY	-	-	-	-	-	516	-	-	-	516
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	323	-	-	-	323	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	200	-	-	-	200	-	-	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	200	-	-	-	200	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	-	240	-	25	145	70
DEPARTMENTAL FUNDS	-	-	-	-	-	240	-	25	145	70
DEPARTMENT OF TRANSPORTATION, TOTAL ..	1,450	-	1,050	400	-	850	150	400	100	200
COAST GUARD	950	-	950	-	-	100	-	-	100	-
FEDERAL HIGHWAY ADMINISTRATION	500	-	100	400	-	750	150	400	-	200
DEPARTMENT OF THE TREASURY, TOTAL	2,911	-	1,144	104	1,663	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING ...	2,911	-	1,144	104	1,663	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	13,106	-	11,944	1,162	-	28,353	22,701	3,573	2,121	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	1,624	-	-	1,624	-	1,034	192	733	109	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	389,087	226,325	7,022	129,891	25,849	260,961	126,443	65,158	2,800	66,560
NATIONAL SCIENCE FOUNDATION	353,506	83,970	108,710	160,388	438	334,439	109,101	98,749	115,520	11,069
SMITHSONIAN INSTITUTION	9,525	9,525	-	-	-	4,310	144	2,978	1,188	-
TENNESSEE VALLEY AUTHORITY	3,700	-	3,700	-	-	1,170	1,170	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY ..	5,320	-	10	85	5,225	166	68	-	98	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-28. FEDERAL OBLIGATIONS FOR RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO- NAUTICAL	ASTRO- NAUTICAL	CHEMICAL	CIVIL	ELEC- TRICAL	MECHAN- ICAL	METAL- LURGY AND MATERIALS	ENGI- NEERING NEC
TOTAL, ALL AGENCIES	3,386,543	741,158	290,734	95,118	201,919	612,186	201,228	309,129	935,071
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	51,176	-	-	5,794	3,904	313	4,274	-	36,891
AGRICULTURAL RESEARCH SERVICE	30,011	-	-	2,920	1,923	313	1,044	-	23,811
COOPERATIVE STATE RESEARCH SERVICE	6,949	-	-	-	-	-	-	-	6,949
FOREST SERVICE	14,216	-	-	2,874	1,981	-	3,230	-	6,131
DEPARTMENT OF COMMERCE, TOTAL	32,013	-	-	1,971	5,333	10,006	1,761	7,083	5,859
NATIONAL BUREAU OF STANDARDS	23,762	-	-	1,971	4,691	2,809	1,761	6,671	5,859
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	2,142	-	-	-	642	1,088	-	412	-
NAT'L TELECOMM & INFORMATION ADMIN ..	6,109	-	-	-	-	6,109	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,473,274	252,632	79,504	39,029	40,439	493,177	144,000	159,276	265,217
DEPARTMENT OF THE ARMY	297,213	35,097	3,902	24,408	25,558	116,433	45,039	31,738	15,038
DEPARTMENT OF THE NAVY	377,961	34,657	-	11,556	3,587	90,685	57,244	48,313	130,919
DEPARTMENT OF THE AIR FORCE	387,293	119,124	55,564	2,903	4,432	142,090	18,745	35,119	9,316
DEFENSE AGENCIES	410,807	63,754	20,038	162	6,862	143,969	22,972	43,106	109,944
DEPARTMENT OF EDUCATION	7,241	-	-	-	-	-	-	-	7,241
DEPARTMENT OF ENERGY	420,776	-	2,539	1,061	43,770	45,095	7,387	61,166	259,758
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	41,369	-	-	-	-	-	-	-	41,369
NATIONAL INSTITUTES OF HEALTH	41,369	-	-	-	-	-	-	-	41,369
DEPT OF HOUSING & URBAN DEVELOPMENT ..	1,134	-	-	-	-	-	-	-	1,134
DEPARTMENT OF THE INTERIOR, TOTAL	87,135	-	-	1,412	11,778	1,017	1,716	32,759	38,453
BUREAU OF MINES	71,024	-	-	-	800	-	-	32,579	37,645
BUREAU OF RECLAMATION	3,530	-	-	22	2,551	310	102	-	545
GEOLOGICAL SURVEY	8,205	-	-	200	6,244	387	1,074	100	200
NATIONAL PARK SERVICE	63	-	-	-	-	-	-	-	63
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	293	-	-	-	293	-	-	-	-
OFFICE OF WATER RESCH & TECHNOLOGY ..	4,020	-	-	1,190	1,890	320	540	80	-
DEPARTMENT OF JUSTICE, TOTAL	1,150	-	-	-	-	1,150	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	900	-	-	-	-	900	-	-	-
IMMIGRATION & NATURALIZATION SVC ...	250	-	-	-	-	250	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	48,318	1,050	490	502	27,288	2,675	13,203	1,040	2,070
COAST GUARD	400	-	-	-	-	400	-	-	-
FEDERAL AVIATION ADMINISTRATION	7,000	1,050	490	-	4,550	910	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	2,981	-	-	112	2,314	75	240	240	-
FEDERAL RAILROAD ADMINISTRATION	3,084	-	-	-	1,144	246	924	-	770
MARITIME ADMINISTRATION	6,000	-	-	-	-	900	3,000	800	1,300
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	8,590	-	-	-	-	-	8,590	-	-
OFFICE OF THE SECRETARY	40	-	-	-	60	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	1,098	-	-	390	115	144	449	-	-
URBAN MASS TRANSPORTATION ADMIN	19,105	-	-	-	19,105	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	97	-	-	-	-	-	97	-	-
BUREAU OF ENGRAVING AND PRINTING ...	97	-	-	-	-	-	97	-	-
OTHER AGENCIES									
AGENCY FOR INTERNAT'L DEVELOPMENT	12,117	-	-	-	4,250	-	-	-	7,867
ENVIRONMENTAL PROTECTION AGENCY	76,428	-	-	25,952	34,634	2,786	6,596	5,212	1,248
FEDERAL COMMUNICATIONS COMMISSION	788	-	-	-	-	788	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ...	3,128	-	-	213	1,078	215	1,045	-	577
GENERAL SERVICES ADMINISTRATION	537	-	-	-	505	-	-	-	32
NATIONAL AERONAUTICS & SPACE ADMIN ...	771,703	486,944	207,842	393	320	20,100	5,183	16,240	34,681
NATIONAL SCIENCE FOUNDATION	129,867	497	18	18,791	28,620	30,347	15,966	26,353	9,109
NUCLEAR REGULATORY COMMISSION	220,287	-	-	-	-	-	-	-	220,287
TENNESSEE VALLEY AUTHORITY	5,052	-	-	-	-	4,473	-	-	579
US ARMS CONTROL & DISARMAMENT AGENCY ..	254	35	175	-	-	4	-	-	-
VETERANS ADMINISTRATION	2,699	-	-	-	-	-	-	-	2,699

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-29. FEDERAL OBLIGATIONS FOR RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1983
(ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO- NAUTICAL	ASTRO- NAUTICAL	CHEMICAL	CIVIL	ELEC- TRICAL	MECHAN- ICAL	METAL- LURGY AND MATERIALS	ENGI- NEERING NEC
TOTAL, ALL AGENCIES	3,501,489	756,879	339,997	138,875	193,514	617,637	198,784	336,393	919,410
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	53,875	-	-	5,966	3,960	345	4,184	-	39,420
AGRICULTURAL RESEARCH SERVICE	32,981	-	-	3,222	2,109	345	1,144	-	26,161
COOPERATIVE STATE RESEARCH SERVICE	7,471	-	-	-	-	-	-	-	7,471
FOREST SERVICE	13,423	-	-	2,744	1,851	-	3,040	-	5,788
DEPARTMENT OF COMMERCE, TOTAL	37,490	-	-	1,093	7,472	10,411	2,704	8,631	7,179
NATIONAL BUREAU OF STANDARDS	30,273	-	-	1,093	6,820	4,211	2,704	8,266	7,179
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	2,429	-	-	-	652	1,412	-	365	-
NAT'L TELECOMM & INFORMATION ADMIN ..	4,788	-	-	-	-	4,788	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,481,085	251,086	91,951	42,679	41,651	507,933	134,087	170,353	241,345
DEPARTMENT OF THE ARMY	292,761	35,754	3,078	27,316	25,691	119,638	40,835	23,754	16,695
DEPARTMENT OF THE NAVY	399,917	35,724	-	12,073	3,212	101,664	59,850	49,577	127,817
DEPARTMENT OF THE AIR FORCE	98,003	117,707	64,190	2,772	5,064	142,638	19,446	36,262	9,924
DEFENSE AGENCIES	400,404	61,901	24,683	518	7,684	143,993	13,956	60,760	86,909
DEPARTMENT OF EDUCATION	7,773	-	-	-	-	-	-	-	7,773
DEPARTMENT OF ENERGY	477,009	-	-	50,128	40,876	31,439	15,114	63,114	276,338
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	45,592	-	-	-	-	-	-	-	45,592
NATIONAL INSTITUTES OF HEALTH	45,592	-	-	-	-	-	-	-	45,592
DEPT OF HOUSING & URBAN DEVELOPMENT ..	1,313	-	-	-	-	-	-	-	1,313
DEPARTMENT OF THE INTERIOR, TOTAL	98,345	-	-	1,120	11,351	868	1,193	41,814	41,999
BUREAU OF MINES	83,386	-	-	-	700	-	-	41,494	41,192
BUREAU OF RECLAMATION	4,691	-	-	20	3,514	365	92	-	700
GEOLOGICAL SURVEY	5,926	-	-	-	4,812	253	861	-	-
MINERAL MANAGEMENT SERVICE	1,500	-	-	400	900	50	50	50	50
NATIONAL PARK SERVICE	57	-	-	-	-	-	-	-	57
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	465	-	-	-	195	-	-	270	-
OFFICE OF WATER RSCH & TECHNOLOGY ..	2,320	-	-	700	1,230	200	190	-	-
DEPARTMENT OF JUSTICE, TOTAL	950	-	-	-	-	950	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	600	-	-	-	-	600	-	-	-
IMMIGRATION & NATURALIZATION SVC ...	350	-	-	-	-	350	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	57,814	1,875	875	450	31,422	2,644	14,480	1,700	4,368
FEDERAL AVIATION ADMINISTRATION	12,500	1,875	875	-	8,125	1,625	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,427	-	-	150	3,627	100	250	300	-
FEDERAL RAILROAD ADMINISTRATION	5,075	-	-	-	1,881	405	1,521	-	1,268
MARITIME ADMINISTRATION	7,750	-	-	-	-	250	3,000	1,400	3,100
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	9,198	-	-	-	-	-	9,198	-	-
OFFICE OF THE SECRETARY	50	-	-	-	50	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	1,280	-	-	300	205	264	511	-	-
URBAN MASS TRANSPORTATION ADMIN	17,534	-	-	-	17,534	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	102	-	-	-	-	-	102	-	-
BUREAU OF ENGRAVING AND PRINTING ...	102	-	-	-	-	-	102	-	-
OTHER AGENCIES									
AGENCY FOR INTERNAT'L DEVELOPMENT	11,131	-	-	-	3,600	-	-	-	7,531
ENVIRONMENTAL PROTECTION AGENCY	46,915	-	-	16,526	21,474	934	4,091	3,117	777
FEDERAL COMMUNICATIONS COMMISSION	948	-	-	-	-	948	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	838	-	-	3	629	32	83	-	91
GENERAL SERVICES ADMINISTRATION	195	-	-	-	101	-	-	-	94
NATIONAL AERONAUTICS & SPACE ADMIN ...	819,325	503,360	246,947	400	300	21,985	5,400	20,379	20,554
NATIONAL SCIENCE FOUNDATION	139,483	543	194	20,510	30,678	33,011	17,344	27,285	9,916
NUCLEAR REGULATORY COMMISSION	209,500	-	-	-	-	-	-	-	209,500
TENNESSEE VALLEY AUTHORITY	7,414	-	-	-	-	6,117	-	-	1,297
US ARMS CONTROL & DISARMAMENT AGENCY ..	325	15	30	-	-	20	-	-	260
VETERANS ADMINISTRATION	4,067	-	-	-	-	-	-	-	4,067

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-30. FEDERAL OBLIGATIONS FOR RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1984
(ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO- NAUTICAL	ASTRO- NAUTICAL	CHEMICAL	CIVIL	ELEC- TRICAL	MECHAN- ICAL	METAL- LURGY AND MATERIALS	ENGI- NEERING NEC
TOTAL, ALL AGENCIES	3,486,898	797,630	357,488	107,875	175,002	683,713	202,729	359,655	802,806
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	52,986	-	-	5,971	3,873	351	4,080	-	38,711
AGRICULTURAL RESEARCH SERVICE	33,125	-	-	3,275	2,106	351	1,148	-	26,245
COOPERATIVE STATE RESEARCH SERVICE	6,863	-	-	-	-	-	-	-	6,863
FOREST SERVICE	12,998	-	-	2,696	1,767	-	2,932	-	5,603
DEPARTMENT OF COMMERCE, TOTAL	28,974	-	-	1,333	1,384	9,375	2,256	7,641	6,985
NATIONAL BUREAU OF STANDARDS	23,326	-	-	1,333	1,012	4,364	2,256	7,376	6,985
NAT'L OCEANIC & ATMOSPHERIC ADMIN	1,744	-	-	-	372	1,107	-	265	-
NAT'L TELECOMM & INFORMATION ADMIN	3,904	-	-	-	-	3,904	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,618,059	258,783	92,070	42,653	45,761	575,080	141,620	195,561	266,531
DEPARTMENT OF THE ARMY	353,264	44,809	1,017	26,943	27,292	150,424	48,073	28,031	26,675
DEPARTMENT OF THE NAVY	421,311	42,445	-	12,336	4,491	111,579	67,317	56,187	126,956
DEPARTMENT OF THE AIR FORCE	433,689	125,875	67,546	2,951	6,036	154,953	22,618	43,399	10,311
DEFENSE AGENCIES	409,795	45,654	23,507	423	7,942	158,124	3,612	67,944	102,589
DEPARTMENT OF EDUCATION	7,773	-	-	-	-	-	-	-	7,773
DEPARTMENT OF ENERGY	309,502	-	-	17,920	29,660	24,799	10,348	67,860	158,915
DEPT OF HLTH & HUMAN SERVICES, TOTAL	46,618	-	-	-	-	-	-	-	46,618
NATIONAL INSTITUTES OF HEALTH	46,618	-	-	-	-	-	-	-	46,618
DEPT OF HOUSING & URBAN DEVELOPMENT	1,109	-	-	-	-	-	-	-	1,109
DEPARTMENT OF THE INTERIOR, TOTAL	64,075	-	-	3,657	5,168	1,092	205	30,530	23,423
BUREAU OF MINES	53,753	-	-	-	700	-	-	30,430	22,623
BUREAU OF RECLAMATION	4,404	-	-	25	2,999	525	155	-	700
GEOLOGICAL SURVEY	3,901	-	-	3,232	152	517	-	-	-
MINERAL MANAGEMENT SERVICE	1,500	-	-	400	800	50	50	100	100
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	517	-	-	-	517	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	850	-	-	-	-	850	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	600	-	-	-	-	600	-	-	-
IMMIGRATION & NATURALIZATION SVC ...	250	-	-	-	-	250	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	61,741	3,480	1,625	490	35,200	4,026	14,701	1,050	1,170
COAST GUARD	2,100	-	-	-	2,000	-	100	-	-
FEDERAL AVIATION ADMINISTRATION	23,200	3,480	1,625	-	15,080	3,016	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,300	-	-	100	3,650	100	200	250	-
FEDERAL RAILROAD ADMINISTRATION	2,690	-	-	100	1,000	120	800	-	670
MARITIME ADMINISTRATION	6,000	-	-	-	-	600	4,100	800	500
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	9,036	-	-	-	-	-	9,036	-	-
OFFICE OF THE SECRETARY	50	-	-	-	50	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	1,100	-	-	290	155	190	465	-	-
URBAN MASS TRANSPORTATION ADMIN	13,265	-	-	-	13,265	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	104	-	-	-	-	-	104	-	-
BUREAU OF ENGRAVING AND PRINTING ...	104	-	-	-	-	-	104	-	-
OTHER AGENCIES									
AGENCY FOR INTERNAT'L DEVELOPMENT	17,218	-	-	-	3,350	-	-	-	13,868
ENVIRONMENTAL PROTECTION AGENCY	27,795	-	-	10,587	11,757	528	2,752	1,903	268
FEDERAL COMMUNICATIONS COMMISSION	920	-	-	-	-	920	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,963	-	-	12	2,224	112	294	321	-
GENERAL SERVICES ADMINISTRATION	250	-	-	-	-	-	-	-	250
NATIONAL AERONAUTICS & SPACE ADMIN	870,082	534,691	263,519	400	300	23,684	5,400	21,442	20,644
NATIONAL SCIENCE FOUNDATION	167,627	661	245	24,852	36,325	39,631	20,969	33,347	11,597
NUCLEAR REGULATORY COMMISSION	199,740	-	-	-	-	-	-	-	199,740
TENNESSEE VALLEY AUTHORITY	4,230	-	-	-	-	3,247	-	-	983
US ARMS CONTROL & DISARMAMENT AGENCY	308	15	30	-	-	18	-	-	245
VETERANS ADMINISTRATION	3,974	-	-	-	-	-	-	-	3,974

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-31. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES,
BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHE- MATICS	COMPUTER SCIENCES	MATHE- MATICS AND COM- PUTER SCIENCES NEC	TOTAL	ANTHRO- POLOGY	ECONOM- ICS	POLITI- CAL SCIENCE	SOCI- OLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	350,080	128,131	170,938	51,011	385,939	14,564	157,102	7,534	52,005	154,734
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	18,697	18,697	-	-	89,860	-	83,248	316	5,682	614
AGRICULTURAL COOPERATIVE SERVICE	-	-	-	-	1,704	-	1,704	-	-	-
AGRICULTURAL RESEARCH SERVICE	1,373	1,375	-	-	1,218	-	805	-	15	398
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	45,068	-	42,683	-	2,385	-
ECONOMIC RESEARCH SERVICE	5,973	5,973	-	-	33,297	-	31,765	179	1,137	216
FOREST SERVICE	4,049	4,049	-	-	8,573	-	6,291	137	2,145	-
HUMAN NUTRITION INFORMATION SERVICE	300	300	-	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	7,000	7,000	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	13,675	6,575	5,226	1,874	3,624	-	3,262	184	178	-
BUREAU OF THE CENSUS	1,249	1,084	165	-	392	-	214	-	178	-
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	-	1,600	-	1,600	-	-	-
NATIONAL BUREAU OF STANDARDS	9,318	4,973	2,471	1,674	1,088	-	1,088	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	1,348	518	830	-	514	-	360	154	-	-
NAT'L TELCOMM & INFORMATION ADMIN	1,760	-	1,760	-	30	-	-	30	-	-
DEPARTMENT OF DEFENCE, TOTAL	188,098	44,995	95,844	47,259	4,845	-	703	1,393	2,586	163
DEPARTMENT OF THE ARMY	18,811	9,558	9,115	138	1,242	-	703	-	376	163
DEPARTMENT OF THE NAVY	40,418	12,136	20,270	8,012	2,210	-	-	-	2,210	-
DEPARTMENT OF THE AIR FORCE	39,249	14,352	22,004	2,893	-	-	-	-	-	-
DEFENSE AGENCIES	89,620	8,949	44,455	36,216	1,393	-	-	1,393	-	-
DEPARTMENT OF EDUCATION	-	-	-	-	35,039	-	-	-	830	34,209
DEPARTMENT OF ENERGY	15,105	8,209	6,351	545	3,405	-	-	-	-	3,405
DEPT OF HLTH & HUMAN SERVICES, TOTAL	9,370	9,270	100	-	126,210	937	11,554	830	30,464	82,425
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	510	410	100	-	29,641	937	345	830	22,962	4,567
HEALTH CARE FINANCING ADMIN	-	-	-	-	29,083	-	-	-	-	29,083
HUMAN DEVELOPMENT SERVICES	-	-	-	-	8,733	-	-	-	-	8,733
NATIONAL INSTITUTES OF HEALTH	8,860	8,860	-	-	16,230	-	-	-	-	16,230
OFFICE OF ASST'Y SECY FOR HEALTH	-	-	-	-	13,899	-	2,049	-	3,577	6,273
OFFICE OF THE SECRETARY	-	-	-	-	13,085	-	9,160	-	3,925	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	15,539	-	-	-	-	15,539
DEPT OF HOUSING & URBAN DEVELOPMENT	-	-	-	-	9,176	-	9,073	-	-	103
DEPARTMENT OF THE INTERIOR, TOTAL	3,182	252	2,565	365	2,170	883	730	-	86	471
BUREAU OF RECLAMATION	-	-	-	-	54	-	18	-	36	-
GEOLOGICAL SURVEY	2,486	252	2,234	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	3	-	3	-	1,404	883	-	-	50	471
OFFICE OF THE SECRETARY	109	-	109	-	218	-	218	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	219	-	219	-	24	-	24	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	365	-	-	365	470	-	470	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	12,812	-	400	400	3,831	8,181
FEDERAL PRISON SYSTEM	-	-	-	-	698	-	-	-	250	448
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	11,722	-	400	400	3,581	7,341
OFFICE OF LEGAL POLICY	-	-	-	-	392	-	-	-	-	392
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	17,155	-	17,155	-	-	-
BUREAU OF LABOR STATISTICS	-	-	-	-	291	-	291	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	-	-	-	-	1,400	-	1,400	-	-	-
EMPLOYMENT AND TRAINING ADMIN	-	-	-	-	8,654	-	8,654	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	715	-	715	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	-	-	-	-	4,900	-	4,900	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	900	-	900	-	-	-
PENSION BENEFIT GUARANTEE CORPORATION	-	-	-	-	295	-	295	-	-	-

CONTINUED ON NEXT PAGE

TABLE C-31. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES,
BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHE- MATICS	COMPUTER SCIENCES	MATHE- MATICS AND COM- PUTER SCIENCES NEC	TOTAL	ANTHRO- POLOGY	ECONOM- ICS	POLITI- CAL SCIENCE	SOCI- OLOGY	SOCIAL SCIENCES NEC
DEPARTMENT OF STATE, TOTAL	-	-	-	-	1,406	-	120	-	-	1,286
DEPARTMENTAL FUNDS	-	-	-	-	1,406	-	120	-	-	1,286
DEPARTMENT OF TRANSPORTATION, TOTAL ..	912	-	712	200	10,961	-	6,519	-	4,442	-
COAST GUARD	200	-	-	200	200	-	-	-	200	-
FEDERAL HIGHWAY ADMINISTRATION	300	-	300	-	103	-	103	-	-	-
FEDERAL RAILROAD ADMINISTRATION	12	-	12	-	4	-	4	-	-	-
MARITIME ADMINISTRATION	400	-	400	-	200	-	200	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	-	-	-	-	8,982	-	5,306	-	3,676	-
OFFICE OF THE SECRETARY	-	-	-	-	200	-	200	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	-	-	-	-	1,002	-	706	-	296	-
URBAN MASS TRANSPORTATION ADMIN	-	-	-	-	270	-	-	-	270	-
DEPARTMENT OF THE TREASURY, TOTAL	3,077	2,014	1,063	-	2,199	-	2,199	-	-	-
INTERNAL REVENUE SERVICE	3,077	2,014	1,063	-	2,199	-	2,199	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	-	-	-	-	2,013	-	1,017	1,016	-	-
AGENCY FOR INTERNAT'L DEVELOPMENT	1,426	-	1,426	-	482	-	121	-	127	234
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	300	-	300	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	3,700	617	3,083	-	2,795	-	2,439	178	178	-
FEDERAL COMMUNICATIONS COMMISSION	-	-	-	-	376	-	97	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	594	471	123	-	1,312	-	705	171	232	204
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	2,701	-	2,701	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	1,188	-	1,188	-	-	-
INTERNATIONAL TRADE COMMISSION	-	-	-	-	3,764	-	3,764	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	25,965	3,268	21,929	768	63	50	-	-	-	13
NATIONAL SCIENCE FOUNDATION	66,237	33,763	32,474	-	31,636	5,897	9,807	2,775	3,369	9,788
SMITHSONIAN INSTITUTION	-	-	-	-	20,156	6,797	-	-	-	13,359
US ARMS CONTROL & DISARMAMENT AGENCY ..	42	-	42	-	271	-	-	271	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-32. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES,
BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHE- MATICS	COMPUTER SCIENCES	MATHE- MATICS AND COM- PUTER SCIENCES NEC	TOTAL	ANTHRO- POLOGY	ECONOM- ICS	POLITI- CAL SCIENCE	SOCI- OLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	399,429	138,187	201,429	59,813	425,502	12,440	163,996	7,583	57,850	183,633
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	19,649	19,649	-	-	92,509	-	85,850	304	5,708	647
AGRICULTURAL COOPERATIVE SERVICE ...	-	-	-	-	1,716	-	1,716	-	-	-
AGRICULTURAL RESEARCH SERVICE	1,514	1,514	-	-	1,335	-	886	-	16	433
COOPERATIVE STATE RESEARCH SERVICE ..	-	-	-	-	48,456	-	45,891	-	2,565	-
ECONOMIC RESEARCH SERVICE	5,944	5,944	-	-	33,020	-	31,518	177	1,111	214
FOREST SERVICE	3,791	3,791	-	-	7,982	-	5,839	127	2,016	-
HUMAN NUTRITION INFORMATION SERVICE ..	500	500	-	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	7,900	7,900	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	13,671	6,829	5,161	1,681	3,058	-	2,735	130	193	-
BUREAU OF THE CENSUS	1,519	1,340	179	-	425	-	232	-	193	-
ECONOMIC DEVELOPMENT ADMINISTRATION ..	-	-	-	-	2,000	-	2,000	-	-	-
NATIONAL BUREAU OF STANDARDS	8,921	4,845	2,395	1,681	200	-	200	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	1,915	644	1,271	-	417	-	303	114	-	-
NAT'L TELECOMM & INFORMATION ADMIN ..	1,316	-	1,316	-	16	-	-	16	-	-
DEPARTMENT OF DEFENSE, TOTAL	213,758	45,542	116,206	52,010	5,804	-	806	1,072	2,562	1,364
DEPARTMENT OF THE ARMY	16,827	7,453	9,184	190	1,232	-	806	-	426	-
DEPARTMENT OF THE NAVY	48,813	14,395	25,300	9,118	2,136	-	-	-	2,136	-
DEPARTMENT OF THE AIR FORCE	41,234	15,500	22,638	3,096	-	-	-	-	-	-
DEFENSE AGENCIES	106,884	8,194	59,084	39,606	2,436	-	-	1,072	-	1,364
DEPARTMENT OF EDUCATION	-	-	-	-	38,390	-	-	-	851	37,539
DEPARTMENT OF ENERGY	22,862	9,550	8,300	5,012	7,747	-	-	-	-	7,747
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	10,323	10,223	100	-	142,397	1,009	12,433	872	33,871	94,212
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	531	431	100	-	34,092	1,009	362	872	25,935	5,914
HEALTH CARE FINANCING ADMIN	-	-	-	-	30,000	-	-	-	-	30,000
HUMAN DEVELOPMENT SERVICES	-	-	-	-	7,363	-	-	-	-	7,363
NATIONAL INSTITUTES OF HEALTH	9,792	9,792	-	-	17,816	-	-	-	-	17,816
OFFICE OF ASST'T SECY FOR HEALTH ...	-	-	-	-	14,618	-	2,118	-	3,671	8,829
OFFICE OF THE SECRETARY	-	-	-	-	14,218	-	9,953	-	4,265	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	24,290	-	-	-	-	24,290
DEPT OF HOUSING & URBAN DEVELOPMENT ..	-	-	-	-	10,623	-	10,504	-	-	119
DEPARTMENT OF THE INTERIOR, TOTAL	3,275	260	2,755	260	1,893	716	600	-	322	255
BUREAU OF RECLAMATION	-	-	-	-	15	-	15	-	20	-
GEOLOGICAL SURVEY	2,825	260	2,565	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	3	-	3	-	1,226	716	-	-	302	208
OFFICE OF THE SECRETARY	127	-	127	-	255	-	255	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	60	-	60	-	70	-	70	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY ..	260	-	-	260	307	-	260	-	-	47
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	19,789	-	600	600	5,132	13,457
FEDERAL PRISON SYSTEM	-	-	-	-	850	-	-	-	250	600
OFF OF JUSTICE ASSIST, RSCH, & STAT ..	-	-	-	-	18,347	-	600	600	4,882	12,265
OFFICE OF LEGAL POLICY	-	-	-	-	592	-	-	-	-	592
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	15,869	-	15,869	-	-	-
BUREAU OF LABOR STATISTICS	-	-	-	-	315	-	315	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION ..	-	-	-	-	2,000	-	2,000	-	-	-
EMPLOYMENT AND TRAINING ADMIN	-	-	-	-	5,834	-	5,834	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	751	-	751	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN ..	-	-	-	-	5,700	-	5,700	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	1,000	-	1,000	-	-	-
PENSION BENEFIT GUARANTEE CORPORATION	-	-	-	-	269	-	269	-	-	-

CONTINUED ON NEXT PAGE

TABLE C-32. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES,
BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHE- MATICS	COMPUTER SCIENCES	MATHE- MATICS AND COM- PUTER SCIENCES NEC	TOTAL	ANTHRO- POLOGY	ECONOM- ICS	POLITI- CAL SCIENCE	SOCI- OLOGY	SOCIAL SCIENCES NEC
DEPARTMENT OF STATE, TOTAL	-	-	-	-	1,456	-	100	-	-	1,356
DEPARTMENTAL FUNDS	-	-	-	-	1,456	-	100	-	-	1,356
DEPARTMENT OF TRANSPORTATION, TOTAL ..	841	23	818	-	12,201	-	7,160	-	4,991	50
COAST GUARD	-	-	-	-	150	-	-	-	100	50
FEDERAL HIGHWAY ADMINISTRATION	323	23	300	-	100	-	100	-	-	-
FEDERAL RAILROAD ADMINISTRATION	18	-	18	-	7	-	7	-	-	-
MARITIME ADMINISTRATION	500	-	500	-	400	-	400	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	-	-	-	-	9,611	-	5,680	-	3,931	-
OFFICE OF THE SECRETARY	-	-	-	-	213	-	213	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	-	-	-	-	1,220	-	760	-	460	-
URBAN MASS TRANSPORTATION ADMIN	-	-	-	-	500	-	-	-	500	-
DEPARTMENT OF THE TREASURY, TOTAL	4,447	2,877	1,570	-	3,828	-	3,828	-	-	-
INTERNAL REVENUE SERVICE	4,447	2,877	1,570	-	3,828	-	3,828	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	-	-	-	-	1,956	-	978	978	-	-
AGENCY FOR INTERNAT'L DEVELOPMENT	490	-	490	-	845	-	170	-	400	275
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	300	-	300	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	3,682	282	3,400	-	2,167	-	1,889	139	139	-
FEDERAL COMMUNICATIONS COMMISSION ..	-	-	-	-	264	-	67	-	-	197
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	221	142	79	-	847	-	455	110	150	132
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	2,988	-	2,988	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	1,739	-	1,739	-	-	-
GENERAL SERVICES ADMINISTRATION	250	-	250	-	-	-	-	-	-	-
INTERNATIONAL TRADE COMMISSION	-	-	-	-	3,989	-	3,989	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	33,696	4,691	28,255	750	100	-	-	-	-	100
NATIONAL SCIENCE FOUNDATION	72,264	38,119	34,045	100	34,755	6,204	10,926	3,084	3,531	11,010
SMITHSONIAN INSTITUTION	-	-	-	-	19,684	4,511	-	-	-	15,173
US ARMS CONTROL & DISARMAMENT AGENCY ..	-	-	-	-	304	-	10	294	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-33. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES,
BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1984 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHE- MATICS	COMPUTER SCIENCES	MATHE- MATICS AND COM- PUTER SCIENCES NEC	TOTAL	ANTHRO- POLOGY	ECONOM- ICS	POLITI- CAL SCIENCE	SOCI- OLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	481,591	161,306	249,508	70,777	432,280	20,351	171,219	6,721	59,425	174,564
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	20,232	20,232	-	-	92,911	-	86,327	325	5,595	664
AGRICULTURAL COOPERATIVE SERVICE ...	-	-	-	-	1,360	-	1,360	-	-	-
AGRICULTURAL RESEARCH SERVICE	1,534	1,534	-	-	1,302	-	869	-	16	417
COOPERATIVE STATE RESEARCH SERVICE ..	-	-	-	-	44,513	-	42,157	-	2,356	-
ECONOMIC RESEARCH SERVICE	6,868	6,868	-	-	38,156	-	36,420	205	1,284	247
FOREST SERVICE	3,630	3,630	-	-	7,580	-	5,521	120	1,939	-
STATISTICAL REPORTING SERVICE	8,200	8,200	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	12,706	6,604	4,360	1,742	961	-	657	106	198	-
BUREAU OF THE CENSUS	1,549	1,365	184	-	436	-	238	-	198	-
NATIONAL BUREAU OF STANDARDS	8,222	4,694	1,786	1,742	207	-	207	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	1,619	543	1,074	-	318	-	212	106	-	-
NAT'L TELECOMM & INFORMATION ADMIN ..	1,316	-	1,316	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	260,265	58,969	134,849	66,447	4,256	-	1,155	-	2,579	522
DEPARTMENT OF THE ARMY	20,711	9,427	11,069	215	1,722	-	1,155	-	567	-
DEPARTMENT OF THE NAVY	51,595	14,078	27,702	9,815	2,012	-	-	-	2,012	-
DEPARTMENT OF THE AIR FORCE	47,189	20,164	23,612	3,413	-	-	-	-	-	-
DEFENSE AGENCIES	140,770	15,300	72,466	53,004	522	-	-	-	-	522
DEPARTMENT OF EDUCATION	-	-	-	-	33,549	-	-	-	851	32,698
DEPARTMENT OF ENERGY	21,462	10,070	9,600	1,792	2,769	-	-	-	-	2,769
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	10,590	10,490	100	-	147,778	1,130	10,030	970	35,757	99,891
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	579	479	100	-	37,667	1,130	403	970	28,641	6,503
HEALTH CARE FINANCING ADMIN	-	-	-	-	30,000	-	-	-	-	30,000
HUMAN DEVELOPMENT SERVICES	-	-	-	-	5,955	-	-	-	-	5,955
NATIONAL INSTITUTES OF HEALTH	10,011	10,011	-	-	18,140	-	-	-	-	18,140
OFFICE OF ASST'T SECY FOR HEALTH ...	-	-	-	-	16,243	-	2,277	-	3,944	10,020
OFFICE OF THE SECRETARY	-	-	-	-	10,500	-	7,350	-	3,150	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	29,273	-	-	-	-	29,273
DEPT OF HOUSING & URBAN DEVELOPMENT ..	-	-	-	-	8,980	-	8,879	-	-	101
DEPARTMENT OF THE INTERIOR, TOTAL	3,433	260	3,173	-	2,402	1,000	902	-	500	-
BUREAU OF RECLAMATION	-	-	-	-	36	-	36	-	-	-
GEOLOGICAL SURVEY	3,065	260	2,805	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	1,500	1,000	-	-	500	-
OFFICE OF THE SECRETARY	368	-	368	-	736	-	736	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	-	-	-	-	130	-	130	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	12,295	-	600	300	3,750	7,645
FEDERAL PRISON SYSTEM	-	-	-	-	600	-	-	-	250	350
OFF OF JUSTICE ASSIST, RSCH, & STAT ..	-	-	-	-	11,170	-	600	300	3,500	6,770
OFFICE OF LEGAL POLICY	-	-	-	-	525	-	-	-	-	525
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	17,270	-	17,270	-	-	-
BUREAU OF LABOR STATISTICS	-	-	-	-	377	-	377	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION ..	-	-	-	-	1,250	-	1,250	-	-	-
EMPLOYMENT AND TRAINING ADMIN	-	-	-	-	6,675	-	6,675	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	1,786	-	1,786	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN ..	-	-	-	-	5,700	-	5,700	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	1,200	-	1,200	-	-	-
PENSION BENEFIT GUARANTEE CORPORATION	-	-	-	-	282	-	282	-	-	-

CONTINUED ON NEXT PAGE

TABLE C-33. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES,
BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1984 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHE- MATICS	COMPUTER SCIENCES	MATHE- MATICS AND COM- PUTER SCIENCES MEC	TOTAL	ANTHRD- POLOGY	ECONOM- ICS	POLITI- CAL SCIENCE	SOCI- DLOGY	SOCIAL SCIENCES NEC
DEPARTMENT OF STATE, TOTAL	-	-	-	-	1,368	-	100	-	-	1,268
DEPARTMENTAL FUNDS	-	-	-	-	1,368	-	100	-	-	1,268
DEPARTMENT OF TRANSPORTATION, TOTAL ..	760	100	660	-	11,814	-	6,806	-	5,008	-
COAST GUARD	-	-	-	-	550	-	-	-	550	-
FEDERAL HIGHWAY ADMINISTRATION	450	100	350	-	100	-	100	-	-	-
FEDERAL RAILROAD ADMINISTRATION	10	-	10	-	-	-	-	-	-	-
MARITIME ADMINISTRATION	300	-	300	-	200	-	200	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	-	-	-	-	9,443	-	5,580	-	3,863	-
OFFICE OF THE SECRETARY	-	-	-	-	421	-	421	-	-	-
RESEARCH & SPECIAL PROGRAMS	-	-	-	-	700	-	505	-	195	-
URBAN MASS TRANSPORTATION ADMIN	-	-	-	-	400	-	-	-	400	-
DEPARTMENT OF THE TREASURY, TOTAL	4,810	3,000	1,810	-	3,820	-	3,000	-	-	820
INTERNAL REVENUE SERVICE	4,810	3,000	1,810	-	3,820	-	3,000	-	-	820
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	-	-	-	-	2,036	-	1,018	1,018	-	-
AGENCY FOR INTERNAT'L DEVELOPMENT	600	-	600	-	817	-	225	-	400	192
ENVIRONMENTAL PROTECTION AGENCY	3,378	281	3,097	-	10,336	-	10,020	158	158	-
FEDERAL COMMUNICATIONS COMMISSION	-	-	-	-	82	-	20	-	-	62
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	783	503	280	-	2,996	-	1,611	390	530	465
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	3,103	-	3,103	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	1,688	-	1,688	-	-	-
GENERAL SERVICES ADMINISTRATION	950	-	950	-	-	-	-	-	-	-
INTERNATIONAL TRADE COMMISSION	-	-	-	-	4,385	-	4,385	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	55,812	5,251	49,811	750	100	-	-	-	-	100
NATIONAL SCIENCE FOUNDATION	85,810	45,546	40,218	46	39,459	6,668	13,413	3,178	4,099	12,101
SMITHSONIAN INSTITUTION	-	-	-	-	26,819	11,553	-	-	-	15,266
US ARMS CONTROL & DISARMAMENT AGENCY ..	-	-	-	-	286	-	10	276	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-34. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1982
(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	UNITED STATES AND TERRITORIES							FOREIGN
			INDUS- TRIAL FIRMS	FFRDCS ADMIN BY INDUS- TRIAL FIRMS	UNIVER- SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON- PROFIT INSTI- TUTIONS	FFRDCS ADMIN BY NON- PROFIT INSTI- TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	5,481,605	1,465,534	270,896	87,384	2,727,126	516,704	355,605	8,990	24,473	24,893
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	330,755	218,724	174	100	107,576	105	1,695	-	1,408	973
AGRICULTURAL RESEARCH SERVICE	192,908	175,091	-	-	16,434	-	388	-	608	387
COOPERATIVE STATE RESEARCH SERVICE ..	91,323	3,155	-	100	86,164	105	1,278	-	521	-
ECONOMIC RESEARCH SERVICE	3,927	3,778	-	-	149	-	-	-	-	-
FOREST SERVICE	38,690	33,311	174	-	4,829	-	29	-	279	68
OFF OF INTERNAT'L COOPERATION & DEV	1,126	608	-	-	-	-	-	-	-	518
OFFICE OF TRANSPORTATION	481	481	-	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	2,300	2,300	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	16,867	15,672	24	-	1,151	-	-	-	-	20
BUREAU OF THE CENSUS	309	160	-	-	149	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	16,536	15,510	24	-	1,002	-	-	-	-	-
OFFICE OF THE SECRETARY	22	2	-	-	-	-	-	-	-	20
DEPARTMENT OF DEFENSE, TOTAL	686,684	245,524	100,101	89	305,365	5,327	19,904	351	33	9,990
DEPARTMENT OF THE ARMY	187,662	102,904	16,159	15	61,164	547	3,841	-	33	2,999
DEPARTMENT OF THE NAVY	280,300	95,226	33,388	-	142,291	-	6,216	185	-	2,994
DEPARTMENT OF THE AIR FORCE	145,800	37,490	26,059	-	71,461	1,190	5,944	-	-	3,656
DEFENSE AGENCIES	72,922	9,904	24,495	74	30,449	3,590	3,903	166	-	341
DEPARTMENT OF EDUCATION	14,199	2,536	450	-	6,827	-	3,736	-	650	-
DEPARTMENT OF ENERGY	642,211	6,969	6,461	74,286	135,198	409,290	2,241	7,607	45	114
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	2,144,694	462,051	13,376	10,756	1,344,941	11,547	271,256	329	20,525	9,913
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	117,331	53,766	130	-	46,699	79	13,771	-	2,539	347
HEALTH RESOURCES AND SERVICES ADMINISTRATION	600	600	-	-	-	-	-	-	-	-
HUMAN DEVELOPMENT SERVICES	434	34	-	-	-	-	400	-	-	-
NATIONAL INSTITUTES OF HEALTH	2,020,650	404,793	12,510	10,756	1,296,428	11,468	256,876	329	17,979	9,511
OFFICE OF ASST'T SECY FOR HEALTH	5,679	2,858	736	-	1,814	-	209	-	7	55
DEPARTMENT OF THE INTERIOR, TOTAL	76,454	64,690	708	-	10,320	-	-	-	300	436
BUREAU OF MINES	15,922	11,472	-	-	4,450	-	-	-	-	-
BUREAU OF RECLAMATION	90	90	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	52,625	49,610	-	-	3,015	-	-	-	-	-
OFFICE OF THE SECRETARY	480	44	-	-	-	-	-	-	-	436
OFFICE OF WATER RSCH & TECHNOLOGY ..	3,265	597	558	-	2,110	-	-	-	-	-
US FISH & WILDLIFE SERVICE	4,072	2,877	150	-	745	-	-	-	300	-
DEPARTMENT OF JUSTICE, TOTAL	3,087	90	-	-	715	-	2,159	-	123	-
OFF OF JUSTICE ASSIST, RSCH, & STAT ..	3,087	90	-	-	715	-	2,159	-	123	-
DEPARTMENT OF LABOR, TOTAL	6,508	1,440	-	-	2,383	-	2,685	-	-	-
EMPLOYMENT & TRAINING ADMIN	6,508	1,440	-	-	2,383	-	2,685	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	1,000	200	300	-	300	-	200	-	-	-
MARITIME ADMINISTRATION	1,000	200	300	-	300	-	200	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	2,196	2,076	120	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	2,196	2,076	120	-	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	32,687	11,028	10,188	-	11,471	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	1,438	690	-	-	690	-	58	-	-	-
FEDERAL TRADE COMMISSION	1,009	1,009	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	148	148	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	535,733	250,670	118,961	-	125,876	18,409	18,191	410	374	2,842
NATIONAL SCIENCE FOUNDATION	916,078	112,160	20,033	2,153	674,313	72,026	33,480	293	1,015	605
SMITHSONIAN INSTITUTION	52,357	52,357	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	4,600	4,600	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	12,900	12,900	-	-	-	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-35. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1983 (ESTIMATED)
(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL UNITED STATES AND TERRITORIES							FOREIGN
			INDUS- TRIAL FIRMS	FFRDCS ADMIN BY INDUS- TRIAL FIRMS	UNIVER- SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON- PROFIT INSTI- TUTIONS	FFRDCS ADMIN BY NON- PROFIT INSTI- TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	6,086,013	1,650,367	301,504	89,081	3,018,252	578,720	373,465	7,857	34,997	31,770
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	363,312	242,876	170	-	114,746	-	416	-	1,415	3,689
AGRICULTURAL RESEARCH SERVICE	217,070	197,760	-	-	17,928	-	388	-	608	386
COOPERATIVE STATE RESEARCH SERVICE	97,641	2,956	-	-	94,150	-	-	-	535	-
ECONOMIC RESEARCH SERVICE	3,896	3,896	-	-	-	-	-	-	-	-
FOREST SERVICE	37,808	34,604	170	-	2,668	-	28	-	272	66
OFF OF INTERNAT'L COOPERATION & DEV	3,873	636	-	-	-	-	-	-	-	3,237
OFFICE OF TRANSPORTATION	424	424	-	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	2,600	2,600	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	17,961	16,376	25	-	1,370	-	-	-	-	190
BUREAU OF THE CENSUS	540	180	-	-	360	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	17,221	16,186	25	-	1,010	-	-	-	-	-
OFFICE OF THE SECRETARY	200	10	-	-	-	-	-	-	-	190
DEPARTMENT OF DEFENSE, TOTAL	769,834	256,522	121,028	425	347,840	8,278	23,157	572	52	11,960
DEPARTMENT OF THE ARMY	194,977	103,833	17,564	25	66,214	260	3,801	-	52	3,428
DEPARTMENT OF THE NAVY	314,000	100,135	43,790	-	158,660	-	6,898	215	-	4,302
DEPARTMENT OF THE AIR FORCE	157,600	40,520	28,160	-	77,245	1,300	6,425	-	-	3,950
DEFENSE AGENCIES	103,257	12,034	31,714	400	45,721	6,718	6,033	357	-	280
DEPARTMENT OF EDUCATION	14,606	2,243	476	-	7,154	-	4,135	-	598	-
DEPARTMENT OF ENERGY	717,068	7,125	5,309	72,157	160,636	463,742	1,920	6,018	47	114
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	2,388,397	520,591	16,421	14,089	1,502,295	12,555	284,784	800	24,711	12,151
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	137,332	66,241	150	-	52,301	55	15,423	-	2,752	410
HEALTH RESOURCES AND SERVICES ADMINISTRATION	600	600	-	-	-	-	-	-	-	-
HUMAN DEVELOPMENT SERVICES	435	35	-	-	-	-	400	-	-	-
NATIONAL INSTITUTES OF HEALTH	2,243,944	450,785	15,524	14,089	1,448,069	12,500	268,817	800	21,959	11,401
OFFICE OF ASST'T SECY FOR HEALTH ...	6,086	2,930	747	-	1,925	-	144	-	-	340
DEPARTMENT OF THE INTERIOR, TOTAL	100,021	84,520	397	-	8,170	-	-	-	6,425	509
BUREAU OF MINES	27,758	24,358	-	-	3,400	-	-	-	-	-
BUREAU OF RECLAMATION	90	90	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	59,993	56,848	-	-	3,145	-	-	-	-	-
OFFICE OF THE SECRETARY	6,770	51	-	-	-	-	-	-	6,210	509
OFFICE OF WATER RSCH & TECHNOLOGY ..	1,600	273	277	-	1,050	-	-	-	-	-
US FISH & WILDLIFE SERVICE	3,810	2,900	120	-	575	-	-	-	215	-
DEPARTMENT OF JUSTICE, TOTAL	4,176	106	-	-	1,305	-	2,440	-	325	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	4,176	106	-	-	1,305	-	2,440	-	325	-
DEPARTMENT OF LABOR, TOTAL	3,837	1,106	-	-	2,731	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	3,837	1,106	-	-	2,731	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	1,400	363	334	-	401	2	300	-	-	-
COAST GUARD	300	163	134	-	1	2	-	-	-	-
MARITIME ADMINISTRATION	1,100	200	200	-	400	-	300	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	3,323	2,547	686	-	90	-	-	-	-	-
INTERNAL REVENUE SERVICE	3,323	2,547	686	-	90	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	20,707	8,603	3,215	-	8,889	-	-	-	-	-
FEDERAL TRADE COMMISSION	1,478	1,478	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	251	251	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	604,664	304,734	129,254	-	128,000	18,500	20,532	415	404	2,825
NATIONAL SCIENCE FOUNDATION	998,529	124,477	24,189	2,410	734,625	75,643	35,781	52	1,020	332
SMITHSONIAN INSTITUTION	55,749	55,749	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	5,500	5,500	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	15,200	15,200	-	-	-	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-36. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1984 (ESTIMATED)
(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL UNITED STATES AND TERRITORIES							FOREIGN
			INDUS- TRIAL FIRMS	FFRDCS ADMIN BY INDUS- TRIAL FIRMS	UNIVER- SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON- PROFIT INSTI- TUTIONS	FFRDCS ADMIN BY NON- PROFIT INSTI- TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	6,615,380	1,774,289	331,265	97,721	3,294,955	663,445	384,856	7,448	27,533	33,868
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	380,817	262,762	168	-	113,156	-	415	-	1,159	3,157
AGRICULTURAL RESEARCH SERVICE	235,857	216,050	-	-	18,425	-	388	-	608	386
COOPERATIVE STATE RESEARCH SERVICE	95,580	2,987	-	-	92,310	-	-	-	283	-
ECONOMIC RESEARCH SERVICE	4,502	4,502	-	-	-	-	-	-	-	-
FOREST SERVICE	38,309	35,360	168	-	2,421	-	27	-	268	65
OFF OF INTERNAT'L COOPERATION & DEV	3,319	613	-	-	-	-	-	-	-	2,706
OFFICE OF TRANSPORTATION	450	450	-	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	2,800	2,800	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	16,489	14,989	-	-	1,260	-	-	-	-	240
BUREAU OF THE CENSUS	542	182	-	-	360	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	15,697	14,797	-	-	900	-	-	-	-	-
OFFICE OF THE SECRETARY	250	10	-	-	-	-	-	-	-	240
DEPARTMENT OF DEFENSE, TOTAL	868,473	274,252	133,608	491	411,544	7,300	26,996	571	55	13,656
DEPARTMENT OF THE ARMY	220,374	113,308	22,657	-	75,801	96	4,517	-	55	3,940
DEPARTMENT OF THE NAVY	330,200	103,609	45,378	-	168,642	-	7,466	306	-	4,799
DEPARTMENT OF THE AIR FORCE	206,600	44,600	39,250	-	108,450	1,500	8,400	-	-	4,400
DEFENSE AGENCIES	111,299	12,735	26,323	491	58,651	5,704	6,613	265	-	517
DEPARTMENT OF EDUCATION	12,837	2,243	408	-	6,062	-	3,500	-	624	-
DEPARTMENT OF ENERGY	800,783	8,215	4,278	78,965	178,812	522,622	1,790	5,952	49	100
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	2,468,104	536,255	17,826	14,925	1,558,510	12,258	291,890	450	23,792	12,198
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	154,504	69,145	180	-	62,893	58	18,547	-	3,142	539
HEALTH RESOURCES AND SERVICES ADMINISTRATION	600	600	-	-	-	-	-	-	-	-
HUMAN DEVELOPMENT SERVICES	935	35	-	-	-	-	900	-	-	-
NATIONAL INSTITUTES OF HEALTH	2,305,135	463,253	16,825	14,925	1,493,692	12,200	272,093	450	20,650	11,047
OFFICE OF ASST'T SECY FOR HEALTH ...	6,930	3,222	821	-	1,925	-	350	-	-	612
DEPARTMENT OF THE INTERIOR, TOTAL	89,724	84,720	115	-	3,265	-	-	-	150	1,474
BUREAU OF MINES	29,601	29,601	-	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	235	135	-	-	100	-	-	-	-	-
GEOLOGICAL SURVEY	55,001	52,411	-	-	2,590	-	-	-	-	-
OFFICE OF THE SECRETARY	1,620	146	-	-	-	-	-	-	-	1,474
US FISH & WILDLIFE SERVICE	3,267	2,427	115	-	575	-	-	-	150	-
DEPARTMENT OF JUSTICE, TOTAL	2,404	91	-	-	200	-	1,963	-	150	-
OFF OF JUSTICE ASSIST, RSCH, & STAT ..	2,404	91	-	-	200	-	1,963	-	150	-
DEPARTMENT OF LABOR, TOTAL	4,414	1,104	-	-	3,310	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	4,414	1,104	-	-	3,310	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	1,550	389	357	-	301	3	500	-	-	-
COAST GUARD	350	189	157	-	1	3	-	-	-	-
MARITIME ADMINISTRATION	1,200	200	200	-	300	-	500	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	3,657	2,743	841	-	73	-	-	-	-	-
INTERNAL REVENUE SERVICE	3,657	2,743	841	-	73	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	17,408	7,743	1,727	-	7,938	-	-	-	-	-
FEDERAL TRADE COMMISSION	1,435	1,435	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	284	284	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	681,521	360,400	138,636	-	137,200	18,500	23,141	415	404	2,825
NATIONAL SCIENCE FOUNDATION	1,181,062	132,246	33,301	3,340	873,324	102,762	34,661	60	1,150	218
SMITHSONIAN INSTITUTION	63,618	63,618	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	5,700	5,700	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	15,100	15,100	-	-	-	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-37. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE:
FISCAL YEARS 1982, 1983, AND 1984

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1982	ESTIMATES	
		1983	1984
TOTAL, ALL FIELDS	5,481,605	6,086,013	6,615,380
LIFE SCIENCES, TOTAL	2,526,017	2,796,346	2,926,579
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	1,401,192	1,542,180	1,614,646
ENVIRONMENTAL BIOLOGY	83,164	93,263	105,049
AGRICULTURAL	190,396	214,323	226,797
MEDICAL	793,419	882,291	912,364
LIFE SCIENCES, NEC	57,846	64,289	67,723
PSYCHOLOGY, TOTAL	89,875	99,017	105,190
BIOLOGICAL ASPECTS	32,897	35,797	37,736
SOCIAL ASPECTS	33,655	36,811	39,552
PSYCHOLOGICAL SCIENCES, NEC	23,323	26,409	27,902
PHYSICAL SCIENCES, TOTAL	1,393,844	1,556,765	1,731,484
ASTRONOMY	271,114	323,937	333,407
CHEMISTRY	312,002	325,700	367,693
PHYSICS	790,741	888,283	991,646
PHYSICAL SCIENCES, NEC	19,987	18,845	38,738
ENVIRONMENTAL SCIENCES, TOTAL	520,049	560,316	605,936
ATMOSPHERIC	163,195	158,504	177,075
GEOLOGICAL	177,487	192,827	206,724
OCEANOGRAPHY	154,465	170,065	184,596
ENVIRONMENTAL SCIENCES, NEC	24,902	38,920	37,541
MATHEMATICS & COMPUTER SCIENCES, TOTAL	165,064	195,780	239,993
MATHEMATICS	90,862	100,112	115,542
COMPUTER SCIENCES	67,448	80,251	103,657
MATHEMATICS & COMPUTER SCIENCES, NEC	6,754	15,417	20,794
ENGINEERING, TOTAL	610,467	665,455	786,041
AERONAUTICAL	126,465	137,666	188,765
ASTRONAUTICAL	44,845	51,979	59,674
CHEMICAL	35,184	35,393	39,583
CIVIL	31,977	31,289	37,185
ELECTRICAL	93,625	91,891	115,382
MECHANICAL	53,120	57,789	64,362
METALLURGY & MATERIALS	155,888	179,984	198,391
ENGINEERING, NEC	69,363	79,464	82,699
SOCIAL SCIENCES, TOTAL	120,198	125,169	136,364
ANTHROPOLOGY	13,063	11,076	18,651
ECONOMICS	38,950	39,367	41,356
POLITICAL SCIENCE	4,361	4,428	3,431
SOCIOLOGY	18,739	20,410	21,472
SOCIAL SCIENCES, NEC	45,085	49,888	51,454
OTHER SCIENCES, NEC	56,091	87,165	83,793

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-38. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1982
(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY- CHOLOGY	PHYSICAL SCIENCES	ENVIRON- MENTAL SCIENCES	MATHE- MATICS AND COM- PUTER SCIENCES	ENGI- NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	5,481,605	2,526,017	89,875	1,395,844	520,049	165,064	610,467	120,198	56,091
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	330,755	245,426	116	36,169	4,527	3,929	18,238	22,350	-
AGRICULTURAL RESEARCH SERVICE	192,908	150,969	-	29,981	1,271	546	9,864	277	-
COOPERATIVE STATE RESEARCH SERVICE ..	91,323	67,857	-	3,750	470	-	2,571	16,675	-
ECONOMIC RESEARCH SERVICE	3,927	-	-	-	-	-	-	3,927	-
FOREST SERVICE	38,690	24,993	116	2,438	2,786	1,083	5,803	1,471	-
OFF OF INTERNAT'L COOPERATION & DEV	1,126	1,126	-	-	-	-	-	-	-
OFFICE OF TRANSPORTATION	481	481	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	2,300	-	-	-	-	2,300	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	16,867	-	59	13,685	120	1,232	1,771	-	-
BUREAU OF THE CENSUS	309	-	59	-	-	250	-	-	-
NATIONAL BUREAU OF STANDARDS	16,536	-	-	13,663	120	982	1,771	-	-
OFFICE OF THE SECRETARY	22	-	-	22	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	686,684	74,264	21,133	188,694	95,408	74,240	228,236	3,716	993
DEPARTMENT OF THE ARMY	187,662	43,932	4,961	59,622	11,672	11,752	55,610	113	-
DEPARTMENT OF THE NAVY	280,300	18,719	7,128	93,068	69,523	22,106	67,546	2,210	-
DEPARTMENT OF THE AIR FORCE	145,800	9,305	6,995	34,156	11,887	12,754	70,703	-	-
DEFENSE AGENCIES	72,922	2,308	2,049	1,848	2,326	27,628	34,377	1,393	993
DEPARTMENT OF EDUCATION	14,199	-	-	-	-	-	-	13,729	470
DEPARTMENT OF ENERGY	642,211	36,646	-	530,849	9,432	11,560	53,724	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	2,144,694	1,947,501	57,276	53,172	-	5,399	24,828	20,908	35,610
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	117,331	63,736	38,151	250	-	171	-	11,039	3,984
HEALTH RESOURCES AND SERVICES ADMINISTRATION	600	600	-	-	-	-	-	-	-
HUMAN DEVELOPMENT SERVICES	434	-	-	-	-	-	-	434	-
NATIONAL INSTITUTES OF HEALTH	2,020,650	1,883,165	19,125	52,922	-	5,228	24,828	3,756	31,626
OFFICE OF ASST'T SECY FOR HEALTH ...	5,679	-	-	-	-	-	-	5,679	-
DEPARTMENT OF THE INTERIOR, TOTAL	76,454	4,697	-	8,080	45,928	1,249	12,162	338	-
BUREAU OF MINES	15,922	-	-	4,500	-	-	11,422	-	-
BUREAU OF RECLAMATION	90	-	-	-	-	-	90	-	-
GEOLOGICAL SURVEY	52,625	-	-	2,790	48,905	930	-	-	-
OFFICE OF THE SECRETARY	480	-	-	-	153	109	-	218	-
OFFICE OF WATER RSCH & TECHNOLOGY ..	3,265	625	-	790	870	210	650	120	-
US FISH & WILDLIFE SERVICE	4,072	4,072	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	3,087	-	474	-	-	-	-	2,613	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	3,087	-	474	-	-	-	-	2,613	-
DEPARTMENT OF LABOR, TOTAL	6,508	-	-	-	-	-	-	6,508	-
EMPLOYMENT & TRAINING ADMIN	6,508	-	-	-	-	-	-	6,508	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	1,000	-	-	-	-	-	1,000	-	-
MARITIME ADMINISTRATION	1,000	-	-	-	-	-	1,000	-	-
DEPARTMENT OF THE TREASURY, TOTAL	2,196	-	-	-	-	1,054	-	1,142	-
INTERNAL REVENUE SERVICE	2,196	-	-	-	-	1,054	-	1,142	-
OTHER AGENCIES									
ENVIRONMENTAL PROTECTION AGENCY	32,687	10,042	61	3,778	5,189	361	10,320	2,319	617
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	1,438	129	-	1,309	-	-	-	-	-
FEDERAL TRADE COMMISSION	1,009	-	-	-	-	-	-	1,009	-
LIBRARY OF CONGRESS	148	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	535,733	14,675	1,051	280,617	87,107	2,496	148,880	50	148
NATIONAL SCIENCE FOUNDATION	916,078	159,488	7,912	266,577	264,493	63,544	111,308	25,360	857
SMITHSONIAN INSTITUTION	52,357	20,442	-	7,914	3,845	-	-	20,156	17,396
TENNESSEE VALLEY AUTHORITY	4,600	1,600	-	3,000	-	-	-	-	-
VETERANS ADMINISTRATION	12,900	11,107	1,793	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-39. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)
(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	6,086,013	2,796,346	99,017	1,556,765	560,316	195,780	665,455	125,169	87,165
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	363,312	271,010	113	40,150	4,656	1,273	19,534	23,576	-
AGRICULTURAL RESEARCH SERVICE	217,070	169,878	-	33,736	1,430	614	11,099	313	-
COOPERATIVE STATE RESEARCH SERVICE	97,641	72,411	-	4,032	505	-	2,764	17,929	-
ECONOMIC RESEARCH SERVICE	3,896	-	-	-	-	-	-	3,896	-
FOREST SERVICE	37,808	24,424	113	2,382	2,721	1,059	5,671	1,438	-
OFF OF INTERNAT'L COOPERATION & DEV	3,873	3,873	-	-	-	-	-	-	-
OFFICE OF TRANSPORTATION	424	424	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	2,600	-	-	-	-	2,600	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	17,961	-	103	14,710	-	1,283	1,845	20	-
BUREAU OF THE CENSUS	540	-	103	-	-	437	-	-	-
NATIONAL BUREAU OF STANDARDS	17,221	-	-	14,510	-	846	1,845	20	-
OFFICE OF THE SECRETARY	200	-	-	200	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	769,834	81,812	22,113	195,009	104,561	95,498	245,082	3,208	22,551
DEPARTMENT OF THE ARMY	194,977	48,330	5,715	55,527	12,676	10,079	52,650	-	10,000
DEPARTMENT OF THE NAVY	314,000	19,518	9,002	102,118	72,683	28,787	68,484	2,136	11,272
DEPARTMENT OF THE AIR FORCE	157,600	10,016	6,577	35,085	13,016	13,770	79,136	-	-
DEFENSE AGENCIES	103,257	3,945	819	2,279	6,186	42,862	44,812	1,072	1,279
DEPARTMENT OF EDUCATION	14,606	-	-	-	-	-	-	14,136	470
DEPARTMENT OF ENERGY	717,068	28,408	-	600,475	11,850	13,850	62,485	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	2,388,397	2,167,499	64,772	58,829	-	6,018	27,601	23,300	40,378
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	137,332	75,767	43,455	262	-	184	-	12,516	5,148
HEALTH RESOURCES AND SERVICES ADMINISTRATION	600	600	-	-	-	-	-	-	-
HUMAN DEVELOPMENT SERVICES	435	-	-	-	-	-	-	435	-
NATIONAL INSTITUTES OF HEALTH	2,243,944	2,091,132	21,317	58,567	-	5,834	27,601	4,263	35,230
OFFICE OF ASST'T SECY FOR HEALTH	6,086	-	-	-	-	-	-	6,086	-
DEPARTMENT OF THE INTERIOR, TOTAL	100,021	4,290	-	8,280	63,121	1,087	22,938	305	-
BUREAU OF MINES	27,758	-	-	5,300	-	-	22,458	-	-
BUREAU OF RECLAMATION	90	-	-	-	-	-	90	-	-
GEOLOGICAL SURVEY	59,993	-	-	2,640	56,473	880	-	-	-
OFFICE OF THE SECRETARY	6,770	-	-	-	6,388	127	-	255	-
OFFICE OF WATER RSCH & TECHNOLOGY ..	1,600	480	-	340	260	80	390	50	-
US FISH & WILDLIFE SERVICE	3,810	3,810	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	4,176	-	652	-	-	-	-	3,524	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	4,176	-	652	-	-	-	-	3,524	-
DEPARTMENT OF LABOR, TOTAL	3,837	-	-	-	-	-	-	3,837	-
EMPLOYMENT & TRAINING ADMIN	3,837	-	-	-	-	-	-	3,837	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	1,400	-	-	300	-	-	1,100	-	-
COAST GUARD	300	-	-	300	-	-	-	-	-
MARITIME ADMINISTRATION	1,100	-	-	-	-	-	1,100	-	-
DEPARTMENT OF THE TREASURY, TOTAL	3,323	-	-	-	-	1,366	-	1,957	-
INTERNAL REVENUE SERVICE	3,323	-	-	-	-	1,366	-	1,957	-
OTHER AGENCIES									
ENVIRONMENTAL PROTECTION AGENCY	20,707	7,350	57	1,985	3,467	251	5,356	1,805	436
FEDERAL TRADE COMMISSION	1,478	-	-	-	-	-	-	1,478	-
LIBRARY OF CONGRESS	251	-	-	-	-	-	-	-	251
NATIONAL AERONAUTICS & SPACE ADMIN ..	604,664	18,282	1,100	337,031	84,600	2,500	160,051	100	1,000
NATIONAL SCIENCE FOUNDATION	998,529	179,199	8,769	287,354	283,772	69,654	119,463	28,239	22,079
SMITHSONIAN INSTITUTION	55,749	22,534	-	9,242	4,289	-	-	19,684	-
TENNESSEE VALLEY AUTHORITY	5,500	2,100	-	3,400	-	-	-	-	-
VETERANS ADMINISTRATION	15,200	13,862	1,338	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-40. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1984 (ESTIMATED)
(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	6,615,380	2,926,579	105,190	1,731,484	605,936	239,993	786,041	136,364	83,793
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	380,817	285,500	115	42,773	4,775	4,540	20,347	22,767	-
AGRICULTURAL RESEARCH SERVICE	235,857	184,581	-	36,656	1,554	667	12,060	339	-
COOPERATIVE STATE RESEARCH SERVICE	95,580	72,403	-	3,704	464	-	2,539	16,470	-
ECONOMIC RESEARCH SERVICE	4,502	-	-	-	-	-	-	4,502	-
FOREST SERVICE	38,309	24,747	115	2,413	2,757	1,073	5,748	1,456	-
OFF OF INTERNAT'L COOPERATION & DEV	3,319	3,319	-	-	-	-	-	-	-
OFFICE OF TRANSPORTATION	450	450	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	2,800	-	-	-	-	2,800	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	16,489	-	104	13,577	-	964	1,824	20	-
BUREAU OF THE CENSUS	542	-	104	-	-	438	-	-	-
NATIONAL BUREAU OF STANDARDS	15,697	-	-	13,327	-	526	1,824	20	-
OFFICE OF THE SECRETARY	250	-	-	250	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	862,473	91,215	23,607	217,805	115,162	115,778	281,387	2,012	21,514
DEPARTMENT OF THE ARMY	220,374	54,210	5,882	63,437	13,682	11,893	61,270	-	10,000
DEPARTMENT OF THE NAVY	330,200	20,067	8,402	106,211	79,446	27,521	75,423	2,012	11,120
DEPARTMENT OF THE AIR FORCE	206,600	12,424	8,498	46,381	15,735	18,312	105,250	-	-
DEFENSE AGENCIES	111,299	4,514	820	1,776	6,299	58,052	39,444	-	394
DEPARTMENT OF EDUCATION	12,837	-	-	-	-	-	-	12,367	470
DEPARTMENT OF ENERGY	800,783	30,050	-	672,860	12,650	14,670	70,553	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	2,468,104	2,233,346	69,474	61,364	-	6,202	28,353	26,676	42,689
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	154,504	84,591	47,575	1,200	-	209	-	14,431	6,498
HEALTH RESOURCES AND SERVICES ADMINISTRATION	600	600	-	-	-	-	-	-	-
HUMAN DEVELOPMENT SERVICES	935	-	-	-	-	-	-	935	-
NATIONAL INSTITUTES OF HEALTH	2,305,135	2,148,155	21,899	60,164	-	5,993	28,353	4,380	36,191
OFFICE OF ASST'T SECY FOR HEALTH	6,930	-	-	-	-	-	-	6,930	-
DEPARTMENT OF THE INTERIOR, TOTAL	89,724	3,267	-	9,740	51,397	1,248	23,336	736	-
BUREAU OF MINES	29,601	-	-	6,500	-	-	23,101	-	-
BUREAU OF RECLAMATION	235	-	-	-	-	-	235	-	-
GEOLOGICAL SURVEY	55,001	-	-	3,240	50,881	880	-	-	-
OFFICE OF THE SECRETARY	1,620	-	-	-	516	368	-	736	-
US FISH & WILDLIFE SERVICE	3,267	3,267	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	2,404	-	150	-	-	-	-	2,254	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	2,404	-	150	-	-	-	-	2,254	-
DEPARTMENT OF LABOR, TOTAL	4,414	-	-	-	-	-	-	4,414	-
EMPLOYMENT & TRAINING ADMIN	4,414	-	-	-	-	-	-	4,414	-
DEPARTMENT OF TRANSPORTATION, TOTAL	1,550	-	-	350	-	-	1,200	-	-
COAST GUARD	350	-	-	350	-	-	-	-	-
MARITIME ADMINISTRATION	1,200	-	-	-	-	-	1,200	-	-
DEPARTMENT OF THE TREASURY, TOTAL	3,657	-	-	-	-	1,600	-	2,057	-
INTERNAL REVENUE SERVICE	3,657	-	-	-	-	1,600	-	2,057	-
OTHER AGENCIES									
ENVIRONMENTAL PROTECTION AGENCY	17,408	6,738	11	1,451	2,911	359	3,253	2,052	633
FEDERAL TRADE COMMISSION	1,435	-	-	-	-	-	-	1,435	-
LIBRARY OF CONGRESS	284	-	-	-	-	-	-	-	284
NATIONAL AERONAUTICS & SPACE ADMIN	681,521	22,886	1,100	351,887	84,327	11,626	208,595	100	1,000
NATIONAL SCIENCE FOUNDATION	1,181,062	214,857	9,292	346,452	330,404	83,006	147,193	32,655	17,203
SMITHSONIAN INSTITUTION	63,618	22,964	-	9,525	4,310	-	-	26,819	-
TENNESSEE VALLEY AUTHORITY	5,700	2,000	-	3,700	-	-	-	-	-
VETERANS ADMINISTRATION	15,100	13,756	1,344	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-41. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	89,875	32,897	33,655	23,323	2,526,017	1,401,192	83,164	190,396	793,419	57,846
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	116	-	116	-	245,426	36,638	17,015	186,912	4,861	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	150,969	15,199	5,331	128,972	1,467	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	67,857	8,130	-	56,333	3,394	-
FOREST SERVICE	116	-	116	-	24,993	13,309	11,684	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	-	-	-	-	1,126	-	-	1,126	-	-
OFFICE OF TRANSPORTATION	-	-	-	-	481	-	-	481	-	-
DEPARTMENT OF COMMERCE, TOTAL	59	-	59	-	-	-	-	-	-	-
BUREAU OF THE CENSUS	59	-	59	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	21,133	118	19,010	2,005	74,264	24,064	7,044	-	43,156	-
DEPARTMENT OF THE ARMY	4,961	118	2,980	1,863	43,932	5,029	349	-	38,554	-
DEPARTMENT OF THE NAVY	7,128	-	7,128	-	18,719	13,656	2,083	-	2,980	-
DEPARTMENT OF THE AIR FORCE	6,995	-	6,995	-	9,305	5,023	4,282	-	-	-
DEFENSE AGENCIES	2,049	-	1,907	142	2,308	356	330	-	1,622	-
DEPARTMENT OF ENERGY	-	-	-	-	36,446	36,446	-	-	-	200
DEPT OF HLTH & HUMAN SERVICES, TOTAL	57,276	25,050	11,666	20,560	1,947,501	1,158,545	161	-	733,410	55,385
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	38,151	25,050	11,666	1,435	63,755	44,691	-	-	16,153	2,892
HEALTH RESOURCES AND SERVICES ADMINISTRATION	-	-	-	-	600	-	-	-	600	-
NATIONAL INSTITUTES OF HEALTH	19,125	-	-	19,125	1,883,165	1,113,854	161	-	716,657	52,493
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	-	-	4,697	4,122	190	385	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	-	-	-	-	625	50	190	385	-	-
US FISH & WILDLIFE SERVICE	-	-	-	-	4,072	4,072	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	474	-	474	-	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	474	-	474	-	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	61	-	61	-	10,042	5,686	3,367	238	751	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	-	-	-	-	129	129	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,051	226	210	615	14,675	9,309	831	887	1,402	2,244
NATIONAL SCIENCE FOUNDATION	7,912	5,710	2,059	143	159,488	116,970	42,129	374	-	15
SMITHSONIAN INSTITUTION	-	-	-	-	20,442	8,015	12,427	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	1,600	-	-	1,600	-	-
VETERANS ADMINISTRATION	1,793	1,793	-	-	11,107	1,268	-	-	9,839	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-42. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	99,017	35,797	36,811	26,409	2,796,346	1,542,180	93,263	214,323	882,291	64,289
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	113	-	113	-	271,010	37,752	17,417	210,519	5,322	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	169,878	17,101	5,999	145,125	1,653	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	72,411	7,645	-	61,097	3,669	-
FOREST SERVICE	113	-	113	-	24,424	13,006	11,418	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	-	-	-	-	3,873	-	-	3,873	-	-
OFFICE OF TRANSPORTATION	-	-	-	-	424	-	-	424	-	-
DEPARTMENT OF COMMERCE, TOTAL	103	-	103	-	-	-	-	-	-	-
BUREAU OF THE CENSUS	103	-	103	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	22,113	58	19,290	2,765	81,812	23,082	8,848	-	49,882	-
DEPARTMENT OF THE ARMY	5,715	58	3,102	2,555	48,330	3,103	328	-	44,899	-
DEPARTMENT OF THE NAVY	9,002	-	9,002	-	19,518	13,785	2,607	-	3,126	-
DEPARTMENT OF THE AIR FORCE	6,577	-	6,577	-	10,016	5,427	4,589	-	-	-
DEFENSE AGENCIES	819	-	609	210	3,948	767	1,324	-	1,857	-
DEPARTMENT OF ENERGY	-	-	-	-	28,408	28,408	-	-	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	64,772	28,374	13,578	22,820	2,167,499	1,290,519	160	-	814,886	61,934
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	43,455	28,374	13,578	1,503	75,767	53,758	-	-	18,418	3,591
HEALTH RESOURCES AND SERVICES ADMINISTRATION	-	-	-	-	600	-	-	-	600	-
NATIONAL INSTITUTES OF HEALTH	21,317	-	-	21,317	2,091,132	1,236,761	160	-	795,868	53,343
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	-	-	4,290	3,910	100	280	-	-
OFFICE OF WATER RSCH & TECHNOLOGY ..	-	-	-	-	480	100	100	280	-	-
US FISH & WILDLIFE SERVICE	-	-	-	-	3,810	3,810	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	652	-	652	-	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	652	-	652	-	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	57	-	57	-	7,350	4,112	2,593	185	460	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,100	250	200	650	18,282	12,426	1,306	900	1,400	2,250
NATIONAL SCIENCE FOUNDATION	8,769	5,777	2,818	174	179,199	129,527	49,228	339	-	105
SMITHSONIAN INSTITUTION	-	-	-	-	22,534	8,923	13,611	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	2,100	-	-	2,100	-	-
VETERANS ADMINISTRATION	1,338	1,338	-	-	13,862	3,521	-	-	10,341	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-43. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1984 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	105,190	37,736	39,552	27,902	2,926,579	1,614,646	105,049	226,797	912,364	67,723
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	115	-	115	-	285,500	38,945	18,087	223,320	5,148	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	184,581	18,581	6,518	157,686	1,796	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	72,403	7,186	-	61,865	3,352	-
FOREST SERVICE	115	-	115	-	24,747	13,178	11,569	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	-	-	-	-	5,319	-	-	3,319	-	-
OFFICE OF TRANSPORTATION	-	-	-	-	50	-	-	450	-	-
DEPARTMENT OF COMMERCE, TOTAL	104	-	104	-	-	-	-	-	-	-
BUREAU OF THE CENSUS	104	-	104	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	23,600	60	20,651	2,889	91,215	26,415	9,413	-	55,387	-
DEPARTMENT OF THE ARMY	5,882	60	3,327	2,495	54,210	3,535	353	-	50,322	-
DEPARTMENT OF THE NAVY	8,400	-	8,400	-	20,067	14,614	2,187	-	3,266	-
DEPARTMENT OF THE AIR FORCE	8,498	-	8,498	-	12,424	7,109	5,315	-	-	-
DEFENSE AGENCIES	820	-	426	394	4,514	1,157	1,558	-	1,799	-
DEPARTMENT OF ENERGY	-	-	-	-	30,050	29,050	-	-	-	1,000
DEPT OF HLTH & HUMAN SERVICES, TOTAL	69,474	29,851	15,450	24,173	2,233,346	1,330,052	180	-	838,745	64,369
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	47,575	29,851	15,450	2,274	84,591	59,642	-	-	20,514	4,435
HEALTH RESOURCES AND SERVICES ADMINISTRATION	-	-	-	-	600	-	-	-	600	-
NATIONAL INSTITUTES OF HEALTH	21,899	-	-	21,899	2,148,155	1,270,410	180	-	817,631	59,934
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	-	-	3,267	3,267	-	-	-	-
US FISH & WILDLIFE SERVICE	-	-	-	-	3,267	3,267	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	150	-	150	-	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	150	-	150	-	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	11	-	11	-	6,738	3,119	2,946	211	462	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,103	250	200	650	22,886	16,907	1,429	900	1,400	2,250
NATIONAL SCIENCE FOUNDATION	9,292	6,232	2,870	190	214,857	155,324	59,063	366	-	104
SMITHSONIAN INSTITUTION	-	-	-	-	22,964	9,033	13,931	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	2,000	-	-	2,000	-	-
VETERANS ADMINISTRATION	1,344	1,343	1	-	13,756	2,534	-	-	11,222	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-44. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEM- ISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOS- PHERIC	GEO- LOGICAL	OCEAN- OGRAPHY	ENVIRON- MENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	1,393,844	271,114	312,002	790,741	19,987	520,049	163,195	177,487	154,465	24,902
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	36,169	-	34,463	1,706	-	4,527	2,197	2,330	-	-
AGRICULTURAL RESEARCH SERVICE	29,981	-	28,894	1,087	-	1,271	992	279	-	-
COOPERATIVE STATE RESEARCH SERVICE ..	3,750	-	3,750	-	-	470	470	-	-	-
FOREST SERVICE	2,438	-	1,819	619	-	2,786	735	2,051	-	-
DEPARTMENT OF COMMERCE, TOTAL	13,685	413	4,221	9,051	-	120	-	-	-	120
NATIONAL BUREAU OF STANDARDS	13,663	413	4,199	9,051	-	120	-	-	-	120
OFFICE OF THE SECRETARY	22	-	22	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	188,694	15,739	51,546	111,006	10,403	95,408	22,581	13,345	49,538	9,944
DEPARTMENT OF THE ARMY	59,622	-	19,960	29,663	9,999	11,672	7,450	3,818	-	404
DEPARTMENT OF THE NAVY	93,068	10,405	17,653	65,010	-	69,523	5,901	5,136	48,946	9,540
DEPARTMENT OF THE AIR FORCE	34,156	5,334	13,933	14,889	-	11,887	9,230	2,657	-	-
DEFENSE AGENCIES	1,848	-	-	1,444	404	2,326	-	1,734	592	-
DEPARTMENT OF ENERGY	530,849	-	75,528	454,821	500	9,432	-	9,432	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	53,172	-	47,996	5,176	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	250	-	250	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	52,922	-	47,746	5,176	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	8,080	-	2,490	1,090	4,500	49,928	-	47,151	2,364	413
BUREAU OF MINES	4,500	-	-	-	4,500	-	-	-	-	-
GEOLOGICAL SURVEY	2,790	-	1,860	930	-	48,905	-	46,541	2,364	-
OFFICE OF THE SECRETARY	-	-	-	-	-	153	-	-	-	153
OFFICE OF WATER RSCH & TECHNOLOGY ..	790	-	630	160	-	870	-	610	-	260
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	3,778	-	3,535	243	-	5,189	3,922	626	641	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	1,309	-	647	662	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	280,617	181,649	5,233	89,233	4,502	87,107	50,066	31,390	2,519	3,132
NATIONAL SCIENCE FOUNDATION	246,577	65,399	83,343	117,753	82	264,493	84,288	70,548	98,364	11,293
SMITHSONIAN INSTITUTION	7,914	7,914	-	-	-	3,845	141	2,665	1,039	-
TENNESSEE VALLEY AUTHORITY	3,000	-	3,000	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-45. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEM- ISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOS- PHERIC	GEO- LOGICAL	OCEAN- OGRAPHY	ENVIRON- MENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	1,556,765	323,937	325,700	888,283	18,845	560,316	158,504	192,827	170,065	38,920
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	40,150	-	38,321	1,829	-	4,656	2,339	2,317	-	-
AGRICULTURAL RESEARCH SERVICE	33,736	-	32,512	1,224	-	1,430	1,116	314	-	-
COOPERATIVE STATE RESEARCH SERVICE ..	4,032	-	4,032	-	-	505	505	-	-	-
FOREST SERVICE	2,382	-	1,777	605	-	2,721	718	2,003	-	-
DEPARTMENT OF COMMERCE, TOTAL	14,710	537	4,295	9,878	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	14,510	537	4,095	9,878	-	-	-	-	-	-
OFFICE OF THE SECRETARY	200	-	200	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	195,009	15,872	52,336	118,170	8,631	104,561	24,399	16,133	51,068	12,961
DEPARTMENT OF THE ARMY	55,527	-	17,735	29,266	8,526	12,676	8,031	4,111	-	534
DEPARTMENT OF THE NAVY	102,118	10,266	20,123	71,729	-	72,683	6,208	6,827	48,917	10,731
DEPARTMENT OF THE AIR FORCE	35,085	5,606	14,478	15,001	-	13,016	10,160	2,856	-	-
DEFENSE AGENCIES	2,279	-	-	2,174	105	6,184	-	2,339	2,151	1,696
DEPARTMENT OF ENERGY	600,475	-	76,052	524,423	-	11,850	-	11,850	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	58,829	-	53,219	5,610	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	262	-	262	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	58,567	-	52,957	5,610	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	8,280	-	2,020	960	5,300	63,121	-	48,687	7,906	6,528
BUREAU OF MINES	5,300	-	-	-	5,300	-	-	-	-	-
GEOLOGICAL SURVEY	2,640	-	1,760	880	-	56,473	-	48,567	7,906	-
OFFICE OF THE SECRETARY	-	-	-	-	-	6,388	-	-	-	6,388
OFFICE OF WATER RSCH & TECHNOLOGY ..	340	-	260	80	-	260	-	120	-	140
DEPARTMENT OF TRANSPORTATION, TOTAL ..	300	-	300	-	-	-	-	-	-	-
COAST GUARD	300	-	300	-	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	1,985	-	1,733	252	-	3,467	-	2,780	204	483
NATIONAL AERONAUTICS & SPACE ADMIN ...	337,031	230,744	5,500	96,187	4,600	84,600	40,221	32,563	2,550	9,266
NATIONAL SCIENCE FOUNDATION	287,354	67,542	88,524	130,974	314	283,772	91,390	75,525	107,175	9,682
SMITHSONIAN INSTITUTION	9,242	9,242	-	-	-	4,289	155	2,972	1,162	-
TENNESSEE VALLEY AUTHORITY	3,400	-	3,400	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-46. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1984 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEM- ISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOS- PHERIC	GEO- LOGICAL	OCEAN- OGRAPHY	ENVIRON- MENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	1,731,484	333,407	367,693	991,646	38,738	605,936	177,075	206,724	184,596	37,541
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	42,773	-	40,830	1,943	-	4,775	2,404	2,371	-	-
AGRICULTURAL RESEARCH SERVICE	36,656	-	35,326	1,330	-	1,554	1,213	341	-	-
COOPERATIVE STATE RESEARCH SERVICE	3,704	-	3,704	-	-	464	464	-	-	-
FOREST SERVICE	2,413	-	1,800	613	-	2,757	727	2,030	-	-
DEPARTMENT OF COMMERCE, TOTAL	13,577	561	4,174	8,842	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	13,327	561	3,924	8,842	-	-	-	-	-	-
OFFICE OF THE SECRETARY	250	-	250	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	217,805	16,219	60,882	130,246	10,458	115,162	27,033	17,155	56,999	13,975
DEPARTMENT OF THE ARMY	63,437	-	20,201	33,750	9,486	13,682	8,526	4,671	-	485
DEPARTMENT OF THE NAVY	106,211	9,460	22,734	73,045	972	79,446	6,239	7,242	54,737	11,228
DEPARTMENT OF THE AIR FORCE	46,381	6,759	17,947	21,675	-	15,735	12,268	3,467	-	-
DEFENSE AGENCIES	1,776	-	-	1,776	-	6,299	-	1,775	2,262	2,262
DEPARTMENT OF ENERGY	672,860	-	87,585	582,275	3,000	12,650	-	12,650	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	61,364	-	55,601	5,763	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	1,200	-	1,200	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	60,164	-	54,401	5,763	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	9,740	-	2,360	880	6,500	51,397	-	42,648	8,233	516
BUREAU OF MINES	6,500	-	-	-	6,500	-	-	-	-	-
GEOLOGICAL SURVEY	3,240	-	2,360	880	-	50,881	-	42,648	8,233	-
OFFICE OF THE SECRETARY	-	-	-	-	-	516	-	-	-	516
DEPARTMENT OF TRANSPORTATION, TOTAL ..	350	-	350	-	-	-	-	-	-	-
COAST GUARD	350	-	350	-	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	1,451	-	1,214	237	-	2,911	2,256	147	508	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	351,887	223,150	5,300	104,944	18,493	84,327	37,415	31,913	2,550	12,449
NATIONAL SCIENCE FOUNDATION	346,452	83,952	105,697	156,516	287	330,404	107,823	96,862	115,118	10,601
SMITHSONIAN INSTITUTION	9,525	9,525	-	-	-	4,310	144	2,978	1,188	-
TENNESSEE VALLEY AUTHORITY	3,700	-	3,700	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-47. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN ENGINEERING, BY AGENCY
AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO- NAUTICAL	ASTRO- NAUTICAL	CHEMICAL	CIVIL	ELEC- TRICAL	MECHAN- ICAL	METAL- LURGY AND MATERIALS	ENGI- NEERING MEC
TOTAL, ALL AGENCIES	610,467	126,465	44,845	35,184	31,977	93,625	53,120	155,888	69,363
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	18,238	-	-	2,948	1,003	136	1,483	-	12,668
AGRICULTURAL RESEARCH SERVICE	9,864	-	-	1,246	539	136	322	-	7,621
COOPERATIVE STATE RESEARCH SERVICE ..	2,571	-	-	-	-	-	-	-	2,571
FOREST SERVICE	5,803	-	-	1,702	464	-	1,161	-	2,476
DEPARTMENT OF COMMERCE, TOTAL	1,771	-	-	91	-	-	477	1,131	72
NATIONAL BUREAU OF STANDARDS	1,771	-	-	91	-	-	477	1,131	72
DEPARTMENT OF DEFENSE, TOTAL	228,236	34,288	4,282	10,927	3,177	60,977	29,258	79,464	5,863
DEPARTMENT OF THE ARMY	55,610	11,175	-	2,049	1,411	22,536	6,146	11,920	373
DEPARTMENT OF THE NAVY	67,546	3,588	-	8,860	-	13,909	15,000	23,083	3,106
DEPARTMENT OF THE AIR FORCE	70,703	19,404	4,282	-	1,766	18,422	7,940	18,889	-
DEFENSE AGENCIES	34,377	121	-	18	-	6,110	172	25,572	2,384
DEPARTMENT OF ENERGY	53,724	-	-	-	-	500	3,901	40,604	8,719
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	24,828	-	-	-	-	-	-	-	24,828
NATIONAL INSTITUTES OF HEALTH	24,828	-	-	-	-	-	-	-	24,828
DEPARTMENT OF THE INTERIOR, TOTAL	12,102	-	-	120	602	58	160	4,894	6,328
BUREAU OF MINES	11,422	-	-	-	200	-	-	4,894	6,328
BUREAU OF RECLAMATION	90	-	-	-	32	58	-	-	-
OFFICE OF WATER RESCH & TECHNOLOGY ..	650	-	-	120	370	-	160	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	1,000	-	-	-	-	-	500	200	300
MARITIME ADMINISTRATION	1,000	-	-	-	-	-	500	200	300
OTHER AGENCIES									
ENVIRONMENTAL PROTECTION AGENCY	10,320	-	-	4,366	5,035	141	292	260	226
NATIONAL AERONAUTICS & SPACE ADMIN ...	148,880	91,736	40,380	348	320	5,464	2,496	5,853	2,283
NATIONAL SCIENCE FOUNDATION	111,308	441	183	16,384	21,850	26,349	14,553	23,482	8,076

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-48. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN ENGINEERING, BY AGENCY
AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO- NAUTICAL	ASTRO- NAUTICAL	CHEMICAL	CIVIL	ELEC- TRICAL	MECHAN- ICAL	METAL- LURGY AND MATERIALS	ENGI- NEERING NEC
TOTAL, ALL AGENCIES	665,455	137,666	51,979	35,393	31,289	91,891	57,789	179,984	79,464
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	19,534	-	-	3,067	1,059	153	1,495	-	13,760
AGRICULTURAL RESEARCH SERVICE	11,099	-	-	1,403	606	153	361	-	8,576
COOPERATIVE STATE RESEARCH SERVICE ..	2,764	-	-	-	-	-	-	-	2,764
FOREST SERVICE	5,671	-	-	1,664	453	-	1,134	-	2,420
DEPARTMENT OF COMMERCE, TOTAL	1,845	-	-	-	-	-	529	1,124	192
NATIONAL BUREAU OF STANDARDS	1,845	-	-	-	-	-	529	1,124	192
DEPARTMENT OF DEFENSE, TOTAL	245,082	35,293	12,088	11,540	3,435	56,601	31,229	91,951	2,945
DEPARTMENT OF THE ARMY	52,650	11,499	-	2,008	1,218	19,164	7,118	11,134	509
DEPARTMENT OF THE NAVY	68,484	3,923	-	9,478	-	13,731	16,106	23,333	1,913
DEPARTMENT OF THE AIR FORCE	79,136	19,871	12,088	-	2,217	17,663	7,932	19,365	-
DEFENSE AGENCIES	44,812	-	-	54	-	6,043	73	38,119	523
DEPARTMENT OF ENERGY	62,485	-	-	-	-	540	5,350	45,380	11,215
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	27,601	-	-	-	-	-	-	-	27,601
NATIONAL INSTITUTES OF HEALTH	27,601	-	-	-	-	-	-	-	27,601
DEPARTMENT OF THE INTERIOR, TOTAL	22,938	-	-	100	470	50	60	9,881	12,377
BUREAU OF MINES	22,458	-	-	-	200	-	-	9,881	12,377
BUREAU OF RECLAMATION	90	-	-	-	40	50	-	-	-
OFFICE OF WATER RESCH & TECHNOLOGY ..	390	-	-	100	230	-	60	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	1,100	-	-	-	-	-	500	500	100
MARITIME ADMINISTRATION	1,100	-	-	-	-	-	500	500	100
OTHER AGENCIES									
ENVIRONMENTAL PROTECTION AGENCY	5,356	-	-	2,473	2,408	1	216	119	139
NATIONAL AERONAUTICS & SPACE ADMIN ...	160,051	101,891	39,697	350	300	5,846	2,550	7,117	2,300
NATIONAL SCIENCE FOUNDATION	119,463	482	194	17,863	23,617	28,700	15,860	23,912	8,835

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-49. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN ENGINEERING, BY AGENCY
AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1984 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO- NAUTICAL	ASTRO- NAUTICAL	CHEMICAL	CIVIL	ELEC- TRICAL	MECHAN- ICAL	METAL- LURGY AND MATERIALS	ENGI- NEERING NEC
TOTAL, ALL AGENCIES	786,041	188,765	59,674	39,583	37,185	115,382	64,362	198,391	82,699
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	20,347	-	-	3,210	1,119	166	1,542	-	14,310
AGRICULTURAL RESEARCH SERVICE	12,060	-	-	1,524	659	166	393	-	9,318
COOPERATIVE STATE RESEARCH SERVICE ..	2,539	-	-	-	-	-	-	-	2,539
FOREST SERVICE	5,748	-	-	1,686	460	-	1,149	-	2,453
DEPARTMENT OF COMMERCE, TOTAL	1,824	-	-	-	-	-	553	1,175	96
NATIONAL BUREAU OF STANDARDS	1,824	-	-	-	-	-	553	1,175	96
DEPARTMENT OF DEFENSE, TOTAL	281,387	42,163	16,305	12,378	4,581	72,955	33,143	96,766	3,096
DEPARTMENT OF THE ARMY	61,270	13,724	-	2,287	1,502	23,081	7,694	12,477	505
DEPARTMENT OF THE NAVY	75,423	4,643	-	10,059	-	16,195	15,290	27,291	1,945
DEPARTMENT OF THE AIR FORCE	105,250	23,796	16,305	-	3,079	26,252	10,030	25,788	-
DEFENSE AGENCIES	39,444	-	-	32	-	7,427	129	31,210	646
DEPARTMENT OF ENERGY	70,553	-	-	-	-	540	6,350	50,320	13,343
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	28,353	-	-	-	-	-	-	-	28,353
NATIONAL INSTITUTES OF HEALTH	28,353	-	-	-	-	-	-	-	28,353
DEPARTMENT OF THE INTERIOR, TOTAL	23,336	-	-	-	550	85	-	12,415	10,286
BUREAU OF MINES	23,101	-	-	-	400	-	-	12,415	10,286
BUREAU OF RECLAMATION	235	-	-	-	150	85	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	1,200	-	-	-	-	100	600	300	200
MARITIME ADMINISTRATION	1,200	-	-	-	-	100	600	300	200
OTHER AGENCIES									
ENVIRONMENTAL PROTECTION AGENCY	3,253	-	-	1,519	1,378	1	150	47	158
NATIONAL AERONAUTICS & SPACE ADMIN ...	208,595	146,001	43,124	350	300	6,350	2,550	7,620	2,300
NATIONAL SCIENCE FOUNDATION	147,193	601	245	22,126	29,257	35,185	19,474	29,748	10,557

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-50. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHE- MATICS	COMPUTER SCIENCES	MATHE- MATICS AND COM- PUTER SCIENCES NEC	TOTAL	ANTHRO- POLOGY	ECONOM- ICS	POLITI- CAL SCIENCE	SOCI- OLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	165,064	90,862	67,448	6,754	120,198	13,063	38,950	4,361	18,739	45,085
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	3,929	3,929	-	-	22,350	-	20,167	38	2,126	19
AGRICULTURAL RESEARCH SERVICE	546	546	-	-	277	-	251	-	11	15
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	16,675	-	15,793	-	882	-
ECONOMIC RESEARCH SERVICE	-	-	-	-	3,927	-	3,349	38	536	4
FOREST SERVICE	1,083	1,083	-	-	1,471	-	774	-	697	-
STATISTICAL REPORTING SERVICE	2,300	2,300	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	1,232	755	477	-	-	-	-	-	-	-
BUREAU OF THE CENSUS	250	250	-	-	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	982	505	477	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	74,240	37,142	31,231	5,867	3,716	-	-	1,393	2,210	113
DEPARTMENT OF THE ARMY	11,752	7,823	3,911	18	113	-	-	-	-	113
DEPARTMENT OF THE NAVY	22,106	12,136	9,346	624	2,210	-	-	-	2,210	-
DEPARTMENT OF THE AIR FORCE	12,754	10,895	1,859	-	-	-	-	-	-	-
DEFENSE AGENCIES	27,628	6,288	16,115	5,225	1,393	-	-	1,393	-	-
DEPARTMENT OF EDUCATION	-	-	-	-	13,729	-	-	-	-	13,729
DEPARTMENT OF ENERGY	11,560	8,209	3,351	-	-	-	-	-	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	5,399	5,399	-	-	20,908	409	979	349	10,298	8,873
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	171	171	-	-	11,039	409	145	349	8,842	1,294
HUMAN DEVELOPMENT SERVICES	-	-	-	-	434	-	-	-	-	434
NATIONAL INSTITUTES OF HEALTH	5,228	5,228	-	-	3,756	-	-	-	-	3,756
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	5,679	-	834	-	1,456	3,389
DEPARTMENT OF THE INTERIOR, TOTAL	1,249	93	946	210	338	-	338	-	-	-
GEOLOGICAL SURVEY	930	93	837	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	109	-	109	-	218	-	218	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	210	-	-	210	120	-	120	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	2,613	-	100	100	1,144	1,269
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	2,613	-	100	100	1,144	1,269
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	6,508	-	6,508	-	-	-
EMPLOYMENT & TRAINING ADMIN	-	-	-	-	6,508	-	6,508	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	1,054	1,054	-	-	1,142	-	1,142	-	-	-
INTERNAL REVENUE SERVICE	1,054	1,054	-	-	1,142	-	1,142	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	361	194	167	-	2,319	-	1,963	178	178	-
FEDERAL TRADE COMMISSION	-	-	-	-	1,009	-	1,009	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	2,496	813	1,006	677	50	50	-	-	-	-
NATIONAL SCIENCE FOUNDATION	63,544	33,274	30,270	-	25,360	5,807	6,744	2,303	2,783	7,723
SMITHSONIAN INSTITUTION	-	-	-	-	20,156	6,797	-	-	-	13,359

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-51. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHE- MATICS	COMPUTER SCIENCES	MATHE- MATICS AND COM- PUTER SCIENCES NEC	TOTAL	ANTHRO- POLOGY	ECONOM- ICS	POLITI- CAL SCIENCE	SOCI- OLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	195,780	100,112	80,251	15,417	125,169	11,076	39,367	4,428	20,410	49,888
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	4,273	4,273	-	-	23,576	-	21,343	37	2,175	21
AGRICULTURAL RESEARCH SERVICE	614	614	-	-	313	-	284	-	12	17
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	17,929	-	16,980	-	949	-
ECONOMIC RESEARCH SERVICE	-	-	-	-	3,896	-	3,323	37	532	4
FOREST SERVICE	1,059	1,059	-	-	1,438	-	756	-	682	-
STATISTICAL REPORTING SERVICE	2,600	2,600	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	1,283	1,124	159	-	20	-	20	-	-	-
BUREAU OF THE CENSUS	437	437	-	-	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	846	687	159	-	20	-	20	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	95,498	39,276	41,635	14,587	3,208	-	-	1,072	2,136	-
DEPARTMENT OF THE ARMY	10,079	6,571	3,468	40	-	-	-	-	-	-
DEPARTMENT OF THE NAVY	28,787	14,395	13,040	1,352	2,136	-	-	-	2,136	-
DEPARTMENT OF THE AIR FORCE	13,770	11,800	1,970	-	-	-	-	-	-	-
DEFENSE AGENCIES	42,862	6,510	23,157	13,195	1,072	-	-	1,072	-	-
DEPARTMENT OF EDUCATION	-	-	-	-	14,136	-	-	-	-	14,136
DEPARTMENT OF ENERGY	13,850	9,550	4,300	-	-	-	-	-	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	6,018	6,018	-	-	23,300	448	1,023	372	11,517	9,940
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	184	184	-	-	12,516	448	155	372	10,012	1,529
HUMAN DEVELOPMENT SERVICES	-	-	-	-	435	-	-	-	-	435
NATIONAL INSTITUTES OF HEALTH	5,834	5,834	-	-	4,263	-	-	-	-	4,263
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	6,086	-	868	-	1,505	3,713
DEPARTMENT OF THE INTERIOR, TOTAL	1,087	88	919	80	305	-	305	-	-	-
GEOLOGICAL SURVEY	880	88	792	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	127	-	127	-	255	-	255	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	80	-	-	80	50	-	50	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	3,524	-	200	200	1,508	1,616
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	3,524	-	200	200	1,508	1,616
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	3,837	-	3,837	-	-	-
EMPLOYMENT & TRAINING ADMIN	-	-	-	-	3,837	-	3,837	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	1,366	1,366	-	-	1,957	-	1,957	-	-	-
INTERNAL REVENUE SERVICE	1,366	1,366	-	-	1,957	-	1,957	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	251	123	128	-	1,805	-	1,527	139	139	-
FEDERAL TRADE COMMISSION	-	-	-	-	1,478	-	1,478	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	2,500	850	1,000	650	100	-	-	-	-	100
NATIONAL SCIENCE FOUNDATION	69,654	37,444	32,110	100	28,239	6,117	7,677	2,608	2,935	8,902
SMITHSONIAN INSTITUTION	-	-	-	-	19,684	4,511	-	-	-	15,173

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-52. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1984 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	239,993	115,542	103,657	20,794	136,364	18,651	41,356	3,431	21,472	51,454
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	4,540	4,540	-	-	22,767	-	20,514	43	2,189	21
AGRICULTURAL RESEARCH SERVICE	667	667	-	-	339	-	310	-	12	17
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	16,470	-	15,598	-	872	-
ECONOMIC RESEARCH SERVICE	-	-	-	-	4,502	-	3,840	43	615	4
FOREST SERVICE	1,073	1,073	-	-	1,456	-	766	-	690	-
STATISTICAL REPORTING SERVICE	2,800	2,800	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	964	964	-	-	20	-	20	-	-	-
BUREAU OF THE CENSUS	438	438	-	-	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	526	526	-	-	20	-	20	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	115,778	46,203	49,477	20,098	2,012	-	-	-	2,012	-
DEPARTMENT OF THE ARMY	11,893	7,902	3,951	40	-	-	-	-	-	-
DEPARTMENT OF THE NAVY	27,521	14,078	11,988	1,455	2,012	-	-	-	2,012	-
DEPARTMENT OF THE AIR FORCE	18,312	16,085	2,227	-	-	-	-	-	-	-
DEFENSE AGENCIES	58,052	8,138	31,311	18,603	-	-	-	-	-	-
DEPARTMENT OF EDUCATION	-	-	-	-	12,367	-	-	-	-	12,367
DEPARTMENT OF ENERGY	14,670	10,070	4,600	-	-	-	-	-	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	6,202	6,202	-	-	26,676	516	1,110	423	13,104	11,521
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	209	209	-	-	14,431	516	176	423	11,488	1,828
HUMAN DEVELOPMENT SERVICES	-	-	-	-	935	-	-	-	-	935
NATIONAL INSTITUTES OF HEALTH	5,993	5,993	-	-	4,380	-	-	-	-	4,380
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	6,920	-	934	-	1,618	4,378
DEPARTMENT OF THE INTERIOR, TOTAL	1,248	88	1,160	-	736	-	736	-	-	-
GEOLOGICAL SURVEY	880	88	792	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	368	-	368	-	736	-	736	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	2,254	-	100	100	500	1,554
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	2,254	-	100	100	500	1,554
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	4,414	-	4,414	-	-	-
EMPLOYMENT & TRAINING ADMIN	-	-	-	-	4,414	-	4,414	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	1,600	1,600	-	-	2,057	-	1,457	-	-	600
INTERNAL REVENUE SERVICE	1,600	1,600	-	-	2,057	-	1,457	-	-	600
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	359	169	190	-	2,052	-	1,736	158	158	-
FEDERAL TRADE COMMISSION	-	-	-	-	1,435	-	1,435	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	11,626	850	10,126	650	100	-	-	-	-	100
NATIONAL SCIENCE FOUNDATION	83,006	44,856	38,104	46	32,655	6,582	9,834	2,707	3,507	10,025
SMITHSONIAN INSTITUTION	-	-	-	-	26,819	11,553	-	-	-	13,266

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-53. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							FOREIGN
			UNITED STATES AND TERRITORIES							
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	7,540,580	2,728,671	1,885,679	399,964	1,318,311	539,997	387,929	95,164	101,433	83,432
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	435,708	284,236	2,327	-	145,322	-	1,303	-	1,559	961
AGRICULTURAL COOPERATIVE SERVICE ...	1,704	1,450	-	-	254	-	-	-	-	-
AGRICULTURAL MARKETING SERVICE	1,008	943	-	-	65	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	186,226	170,456	-	-	14,494	-	349	-	546	381
COOPERATIVE STATE RESEARCH SERVICE ..	127,709	4,537	-	-	122,284	-	-	-	888	-
ECONOMIC RESEARCH SERVICE	35,343	33,998	-	-	1,345	-	-	-	-	-
FOREST SERVICE	68,969	63,485	197	-	4,944	-	204	-	125	14
HUMAN NUTRITION INFORMATION SERVICE	8,500	4,100	2,130	-	1,520	-	750	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	1,229	663	-	-	-	-	-	-	-	566
OFFICE OF TRANSPORTATION	320	320	-	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	4,700	4,284	-	-	416	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	259,188	182,347	13,781	-	44,435	802	11,837	101	5,611	274
BUREAU OF THE CENSUS	1,561	1,561	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION ..	1,600	171	108	-	-	-	1,321	-	-	-
NATIONAL BUREAU OF STANDARDS	57,411	55,972	438	-	922	-	30	-	-	49
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	188,516	114,543	13,235	-	43,513	802	10,486	101	5,611	225
NAT'L TELECOMM & INFORMATION ADMIN ..	10,100	10,100	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	2,266,137	814,227	1,120,776	82,457	107,320	68,137	47,564	17,916	58	7,682
DEPARTMENT OF THE ARMY	451,561	287,817	128,130	-	21,887	1,771	7,770	860	58	3,268
DEPARTMENT OF THE NAVY	498,400	191,698	207,416	74,643	17,560	764	884	4,615	-	820
DEPARTMENT OF THE AIR FORCE	488,100	140,591	284,259	-	47,089	842	14,281	-	-	1,028
DEFENSE AGENCIES	828,076	194,121	500,971	7,814	20,784	64,760	24,629	12,441	-	2,556
DEPARTMENT OF EDUCATION	56,268	7,243	1,045	-	35,819	-	9,284	-	903	1,974
DEPARTMENT OF ENERGY	1,053,877	60,793	233,842	175,401	100,615	398,066	24,473	56,494	882	3,311
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	460,890	419,552	85,696	9,193	680,161	2,981	218,964	-	29,752	14,591
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	128,725	34,340	4,354	-	67,130	-	18,494	-	3,737	670
CENTERS FOR DISEASE CONTROL	75,039	54,219	6,953	-	7,147	-	6,364	-	122	234
FOOD & DRUG ADMINISTRATION	73,000	64,579	-	-	4,302	-	3,999	-	-	120
HEALTH CARE FINANCING ADMIN	29,083	1,518	9,101	-	5,340	-	7,697	-	5,427	-
HEALTH RESOURCES AND SERVICES ADMINISTRATION	6,098	600	-	-	5,157	-	180	-	161	-
HUMAN DEVELOPMENT SERVICES	8,299	1,093	1,017	-	1,726	-	2,794	-	1,654	15
NATIONAL INSTITUTES OF HEALTH	1,103,802	244,134	61,653	9,193	584,278	2,981	173,279	-	14,862	13,422
OFFICE OF ASST'T SECY FOR HEALTH	8,220	4,163	1,073	-	2,643	-	304	-	11	26
OFFICE OF THE SECRETARY	13,085	2,466	1,192	-	1,246	-	5,670	-	2,511	-
SOCIAL SECURITY ADMINISTRATION	15,539	12,440	353	-	1,192	-	183	-	1,267	104
DEPT OF HOUSING & URBAN DEVELOPMENT ..	10,310	9,073	319	-	-	-	918	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	275,006	174,805	22,007	310	22,330	57	2,047	230	53,220	-
BUREAU OF LAND MANAGEMENT	2,388	680	-	-	1,483	-	195	-	30	-
BUREAU OF MINES	65,172	41,600	14,746	-	6,888	57	1,774	-	107	-
BUREAU OF RECLAMATION	8,893	6,047	1,314	-	1,237	-	-	60	235	-
GEOLOGICAL SURVEY	99,435	89,747	3,826	200	5,492	-	-	170	-	-
NATIONAL PARK SERVICE	11,203	9,358	-	110	1,657	-	78	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1,500	994	385	-	58	-	-	-	63	-
OFFICE OF WATER RSCH & TECHNOLOGY ..	6,840	1,194	1,386	-	4,260	-	-	-	-	-
US FISH & WILDLIFE SERVICE	79,575	25,185	350	-	1,255	-	-	-	52,785	-
DEPARTMENT OF JUSTICE, TOTAL	13,218	1,241	1,182	-	5,251	-	5,544	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	1,300	400	900	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	948	475	-	-	185	-	288	-	-	-
IMMIGRATION & NATURALIZATION SVC	250	50	200	-	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	10,328	312	-	-	4,858	-	5,158	-	-	-
OFFICE OF LEGAL POLICY	392	4	82	-	208	-	98	-	-	-
DEPARTMENT OF LABOR, TOTAL	10,647	4,306	4,149	-	1,460	300	400	-	-	32
BUREAU OF LABOR STATISTICS	291	291	-	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION ..	1,400	1,170	-	-	230	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMIN	2,146	214	-	-	1,200	300	400	-	-	32
LABOR-MANAGEMENT SERVICES ADMIN	715	715	-	-	-	-	-	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN ..	4,900	961	3,909	-	30	-	-	-	-	-
OFFICE OF THE SECRETARY	900	900	-	-	-	-	-	-	-	-
PENSION BENEFIT GUARANTEE CORPORATION	295	55	240	-	-	-	-	-	-	-

CONTINUED ON NEXT PAGE

TABLE C-53. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL UNITED STATES AND TERRITORIES							FOREIGN
			INDUS- TRIAL FIRMS	FFRDCS ADMIN BY INDUS- TRIAL FIRMS	UNIVER- SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON- PROFIT INSTI- TUTIONS	FFRDCS ADMIN BY NON- PROFIT INSTI- TUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF STATE, TOTAL	1,549	800	645	83	7	-	14	-	-	-
DEPARTMENTAL FUNDS	1,549	800	645	83	7	-	14	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	65,685	18,580	31,467	-	6,583	12	2,864	-	6,179	-
COAST GUARD	1,650	896	739	-	3	12	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	7,000	1,540	5,460	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	5,300	890	2,110	-	1,000	-	1,100	-	200	-
FEDERAL RAILROAD ADMINISTRATION	3,100	2,418	682	-	-	-	-	-	-	-
MARITIME ADMINISTRATION	5,600	700	4,251	-	349	-	200	-	100	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	21,300	6,580	11,046	-	1,551	-	953	-	1,170	-
OFFICE OF THE SECRETARY	260	143	117	-	-	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	2,100	1,600	300	-	200	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	19,375	3,813	6,762	-	3,480	-	611	-	4,709	-
DEPARTMENT OF THE TREASURY, TOTAL	5,949	4,455	1,489	-	5	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING ...	2,821	1,637	1,184	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	3,080	2,770	305	-	5	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	48	48	-	-	-	-	-	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	2,033	2,033	-	-	-	-	-	-	-	-
AGENCY FOR INTERNAT'L DEVELOPMENT	127,904	7,160	15,556	-	46,000	-	6,323	-	-	52,865
APPALACHIAN REGIONAL COMMISSION	300	50	150	-	-	-	-	-	100	-
CONSUMER PRODUCT SAFETY COMMISSION ..	56	56	-	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	210,692	82,849	65,023	-	46,371	-	14,470	-	1,979	-
FEDERAL COMMUNICATIONS COMMISSION	1,244	1,147	97	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	7,774	3,099	2,285	-	722	935	733	-	-	-
FEDERAL HOME LOAN BANK BOARD	2,701	2,588	73	-	40	-	-	-	-	-
FEDERAL TRADE COMMISSION	179	179	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	537	537	-	-	-	-	-	-	-	-
INTERNATIONAL TRADE COMMISSION	3,764	3,764	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	712	712	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	871,407	501,171	272,114	-	29,976	36,876	29,590	4	866	810
NATIONAL SCIENCE FOUNDATION	57,087	6,089	5,388	252	39,037	24	5,899	2	224	172
NUCLEAR REGULATORY COMMISSION	220,287	20,914	5,510	132,218	6,379	31,771	2,253	20,382	100	760
TENNESSEE VALLEY AUTHORITY	8,100	5,366	-	-	-	-	2,734	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY ..	1,271	189	538	50	148	36	275	35	-	-
VETERANS ADMINISTRATION	110,100	109,110	220	-	330	-	440	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-54. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1983 (ESTIMATED)
(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL UNITED STATES AND TERRITORIES							STATE AND LOCAL GOVTS	FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS			
TOTAL, ALL AGENCIES	8,068,315	2,926,600	2,038,454	426,021	1,389,284	586,560	430,917	75,983	109,571	84,925	
DEPARTMENTS											
DEPARTMENT OF AGRICULTURE, TOTAL	459,153	296,657	1,181	-	154,483	-	1,336	-	1,571	3,925	
AGRICULTURAL COOPERATIVE SERVICE ...	1,716	1,416	-	-	300	-	-	-	-	-	
AGRICULTURAL MARKETING SERVICE	1,250	1,250	-	-	-	-	-	-	-	-	
AGRICULTURAL RESEARCH SERVICE	202,265	185,178	-	-	15,811	-	349	-	546	381	
COOPERATIVE STATE RESEARCH SERVICE ..	137,308	4,165	-	-	132,233	-	-	-	910	-	
ECONOMIC RESEARCH SERVICE	35,068	34,768	-	-	300	-	-	-	-	-	
FOREST SERVICE	63,538	60,310	181	-	2,732	-	187	-	115	13	
HUMAN NUTRITION INFORMATION SERVICE	8,200	3,800	1,000	-	2,600	-	800	-	-	-	
OFF OF INTERNAT'L COOPERATION & DEV	4,225	694	-	-	-	-	-	-	-	3,531	
OFFICE OF TRANSPORTATION	283	283	-	-	-	-	-	-	-	-	
STATISTICAL REPORTING SERVICE	5,300	4,793	-	-	507	-	-	-	-	-	
DEPARTMENT OF COMMERCE, TOTAL	262,166	184,782	14,945	-	44,970	785	10,606	63	5,381	634	
BUREAU OF THE CENSUS	1,690	1,690	-	-	-	-	-	-	-	-	
ECONOMIC DEVELOPMENT ADMINISTRATION	2,000	200	100	-	700	-	1,000	-	-	-	
NATIONAL BUREAU OF STANDARDS	62,859	60,219	1,000	-	1,500	110	30	-	-	-	
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	187,417	114,763	13,845	-	42,770	675	9,576	63	5,381	344	
NAT'L TELECOMM & INFORMATION ADMIN ..	7,900	7,900	-	-	-	-	-	-	-	-	
OFFICE OF THE SECRETARY	300	10	-	-	-	-	-	-	-	290	
DEPARTMENT OF DEFENSE, TOTAL	2,391,690	854,591	1,168,181	92,148	125,359	71,406	57,327	16,185	56	6,437	
DEPARTMENT OF THE ARMY	457,972	271,480	145,888	-	26,154	2,213	9,203	845	56	2,133	
DEPARTMENT OF THE NAVY	507,900	200,202	196,943	83,037	19,719	567	1,947	5,295	-	190	
DEPARTMENT OF THE AIR FORCE	499,000	144,009	289,149	-	47,899	-	16,887	-	-	1,056	
DEFENSE AGENCIES	926,818	238,900	536,201	9,111	31,587	68,626	29,290	10,045	-	3,058	
DEPARTMENT OF EDUCATION	63,488	5,073	1,106	-	41,854	-	13,371	-	1,479	605	
DEPARTMENT OF ENERGY	1,251,532	99,956	334,282	193,900	100,005	441,547	32,028	40,553	4,899	4,362	
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	1,584,345	455,572	98,365	11,350	735,158	4,205	231,761	-	30,746	17,188	
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	145,081	42,431	3,056	-	74,056	-	20,402	-	4,325	811	
CENTERS FOR DISEASE CONTROL	71,566	54,359	6,441	-	3,600	-	5,896	-	120	1,150	
FOOD & DRUG ADMINISTRATION	76,600	68,600	-	-	4,000	-	3,900	-	-	100	
HEALTH CARE FINANCING ADMIN	30,000	1,583	9,387	-	5,493	-	7,939	-	5,998	-	
HEALTH RESOURCES AND SERVICES ADMINISTRATION	7,750	2,750	-	-	4,800	-	200	-	-	-	
HUMAN DEVELOPMENT SERVICES	6,928	1,092	784	-	1,106	-	2,483	-	1,455	8	
NATIONAL INSTITUTES OF HEALTH	1,199,380	265,211	68,365	11,350	635,743	4,205	182,283	-	17,264	14,959	
OFFICE OF ASST'T SECY FOR HEALTH	8,532	4,270	1,088	-	2,805	-	209	-	-	160	
OFFICE OF THE SECRETARY	14,218	2,150	2,844	-	2,500	-	6,694	-	30	-	
SOCIAL SECURITY ADMINISTRATION	24,290	3,126	6,400	-	1,055	-	1,755	-	1,954	-	
DEPT OF HOUSING & URBAN DEVELOPMENT ..	11,936	10,504	370	-	-	-	1,062	-	-	-	
DEPARTMENT OF THE INTERIOR, TOTAL	268,739	171,870	18,851	3,075	18,036	-	950	135	55,822	-	
BUREAU OF LAND MANAGEMENT	1,947	1,150	22	-	740	-	-	-	35	-	
BUREAU OF MINES	66,078	44,036	12,442	2,850	5,950	-	800	-	-	-	
BUREAU OF RECLAMATION	8,850	7,219	704	-	765	-	-	60	100	-	
GEOLOGICAL SURVEY	90,297	82,480	2,462	-	5,355	-	-	-	-	-	
MINERAL MANAGEMENT SERVICE	1,500	750	150	225	300	-	-	75	-	-	
NATIONAL PARK SERVICE	11,806	9,856	-	-	1,800	-	150	-	-	-	
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1,478	465	778	-	235	-	-	-	-	-	
OFFICE OF WATER RESCH & TECHNOLOGY ..	4,417	750	1,901	-	1,766	-	-	-	-	-	
US FISH & WILDLIFE SERVICE	82,366	25,164	390	-	1,125	-	-	-	55,687	-	
DEPARTMENT OF JUSTICE, TOTAL	19,653	1,112	884	300	5,019	89	11,849	-	400	-	
DRUG ENFORCEMENT ADMINISTRATION	800	200	600	-	-	-	-	-	-	-	
FEDERAL PRISON SYSTEM	1,100	475	-	-	300	-	325	-	-	-	
IMMIGRATION & NATURALIZATION SVC	350	50	-	300	-	-	-	-	-	-	
OFF OF JUSTICE ASSIST, RSCH, & STAT	16,811	381	-	-	4,506	-	11,524	-	400	-	
OFFICE OF LEGAL POLICY	592	6	284	-	213	89	-	-	-	-	
DEPARTMENT OF LABOR, TOTAL	12,032	4,024	6,599	-	649	300	460	-	-	-	
BUREAU OF LABOR STATISTICS	315	315	-	-	-	-	-	-	-	-	
EMPLOYMENT STANDARDS ADMINISTRATION ..	2,000	1,000	1,000	-	-	-	-	-	-	-	
EMPLOYMENT AND TRAINING ADMIN	1,997	537	51	-	649	300	460	-	-	-	
LABOR-MANAGEMENT SERVICES ADMIN	751	751	-	-	-	-	-	-	-	-	
OCCUPATIONAL SAFETY & HEALTH ADMIN ..	5,700	400	5,300	-	-	-	-	-	-	-	
OFFICE OF THE SECRETARY	1,000	1,000	-	-	-	-	-	-	-	-	
PENSION BENEFIT GUARANTEE CORPORATION	269	21	248	-	-	-	-	-	-	-	

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TABLE C-54. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1983 (ESTIMATED)
(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL								FOREIGN
			UNITED STATES AND TERRITORIES								
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS		
DEPARTMENT OF STATE, TOTAL	1,596	816	640	60	30	-	50	-	-	-	
DEPARTMENTAL FUNDS	1,596	816	640	60	30	-	50	-	-	-	
DEPARTMENT OF TRANSPORTATION, TOTAL ..	77,197	20,017	37,918	-	7,451	10	3,720	918	7,163	-	
COAST GUARD	1,350	733	605	-	2	10	-	-	-	-	
FEDERAL AVIATION ADMINISTRATION	12,500	2,750	9,750	-	-	-	-	-	-	-	
FEDERAL HIGHWAY ADMINISTRATION	7,100	990	3,010	-	1,600	-	1,100	-	400	-	
FEDERAL RAILROAD ADMINISTRATION	5,100	3,009	1,173	-	-	-	-	918	-	-	
MARITIME ADMINISTRATION	7,550	700	5,050	-	400	-	1,000	-	400	-	
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	22,800	6,976	11,754	-	1,588	-	1,067	-	1,415	-	
OFFICE OF THE SECRETARY	263	113	-	-	150	-	-	-	-	-	
RESEARCH & SPECIAL PROGRAMS ADMIN ..	2,500	900	200	-	1,400	-	-	-	-	-	
URBAN MASS TRANSPORTATION ADMIN	18,034	3,846	6,376	-	2,311	-	553	-	4,948	-	
DEPARTMENT OF THE TREASURY, TOTAL	7,922	4,434	3,438	-	50	-	-	-	-	-	
BUREAU OF ENGRAVING AND PRINTING ...	2,970	1,757	1,213	-	-	-	-	-	-	-	
INTERNAL REVENUE SERVICE	4,952	2,677	2,225	-	50	-	-	-	-	-	
OTHER AGENCIES											
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,956	1,956	-	-	-	-	-	-	-	-	
AGENCY FOR INTERNAT'L DEVELOPMENT	117,287	8,440	10,149	-	43,370	-	6,360	-	-	48,968	
APPALACHIAN REGIONAL COMMISSION	300	30	120	-	-	-	-	-	150	-	
CONSUMER PRODUCT SAFETY COMMISSION	302	302	-	-	-	-	-	-	-	-	
ENVIRONMENTAL PROTECTION AGENCY	153,187	65,714	40,997	-	33,595	-	11,540	-	641	700	
FEDERAL COMMUNICATIONS COMMISSION	1,212	1,086	126	-	-	-	-	-	-	-	
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	3,675	919	1,397	-	368	587	404	-	-	-	
FEDERAL HOME LOAN BANK BOARD	2,988	2,788	-	-	200	-	-	-	-	-	
FEDERAL TRADE COMMISSION	261	261	-	-	-	-	-	-	-	-	
GENERAL SERVICES ADMINISTRATION	445	145	50	-	-	-	250	-	-	-	
INTERNATIONAL TRADE COMMISSION	3,989	3,989	-	-	-	-	-	-	-	-	
LIBRARY OF CONGRESS	870	870	-	-	-	-	-	-	-	-	
NATIONAL AERONAUTICS & SPACE ADMIN	956,871	567,012	286,663	-	32,000	36,900	32,491	5	925	875	
NATIONAL SCIENCE FOUNDATION	61,671	6,173	5,729	239	40,467	20	8,464	127	250	202	
NUCLEAR REGULATORY COMMISSION	209,500	20,919	5,715	124,917	5,798	30,621	2,466	17,947	88	1,029	
TENNESSEE VALLEY AUTHORITY	10,000	6,203	-	-	-	-	3,797	-	-	-	
US ARMS CONTROL & DISARMAMENT AGENCY ..	1,152	104	748	32	28	90	100	50	-	-	
VETERANS ADMINISTRATION	131,200	130,281	-	-	394	-	525	-	-	-	

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-55. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1984 (ESTIMATED)
(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL UNITED STATES AND TERRITORIES							STATE AND LOCAL GOVTS	FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS			
TOTAL, ALL AGENCIES	8,047,859	2,862,287	2,095,290	404,281	1,372,090	623,373	401,056	88,687	112,162	88,633	
DEPARTMENTS											
DEPARTMENT OF AGRICULTURE, TOTAL	438,081	288,909	1,469	-	142,402	-	823	-	1,134	3,344	
AGRICULTURAL COOPERATIVE SERVICE ...	1,360	1,360	-	-	-	-	-	-	-	-	
AGRICULTURAL RESEARCH SERVICE	194,709	177,182	-	-	16,251	-	349	-	546	381	
COOPERATIVE STATE RESEARCH SERVICE ..	126,135	3,989	-	-	121,665	-	-	-	481	-	
ECONOMIC RESEARCH SERVICE	40,522	40,222	-	-	300	-	-	-	-	-	
FOREST SERVICE	59,435	56,494	169	-	2,479	-	174	-	107	12	
HUMAN NUTRITION INFORMATION SERVICE	6,600	3,800	1,300	-	1,200	-	300	-	-	-	
OFF OF INTERNAT'L COOPERATION & DEV	3,620	669	-	-	-	-	-	-	-	2,951	
OFFICE OF TRANSPORTATION	300	300	-	-	-	-	-	-	-	-	
STATISTICAL REPORTING SERVICE	5,400	4,893	-	-	507	-	-	-	-	-	
DEPARTMENT OF COMMERCE, TOTAL	183,204	150,146	8,026	-	17,900	710	4,604	50	1,206	562	
BUREAU OF THE CENSUS	1,735	1,735	-	-	-	-	-	-	-	-	
NATIONAL BUREAU OF STANDARDS	55,105	53,205	900	-	1,000	-	-	-	-	-	
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	118,614	87,896	7,126	-	16,900	710	4,604	50	1,206	122	
NAT'L TELECOMM & INFORMATION ADMIN ..	7,300	7,300	-	-	-	-	-	-	-	440	
OFFICE OF THE SECRETARY	450	10	-	-	-	-	-	-	-	-	
DEPARTMENT OF DEFENSE, TOTAL	2,703,706	895,605	1,398,473	97,971	135,236	89,788	54,616	25,483	41	6,493	
DEPARTMENT OF THE ARMY	525,539	300,563	178,432	-	24,204	3,727	11,502	3,965	41	3,105	
DEPARTMENT OF THE NAVY	552,800	205,902	226,077	91,426	19,940	537	1,318	7,560	-	40	
DEPARTMENT OF THE AIR FORCE	526,000	148,906	307,153	-	50,881	-	17,938	-	-	1,122	
DEFENSE AGENCIES	1,099,367	240,234	686,811	6,545	40,211	85,524	23,858	13,958	-	2,226	
DEPARTMENT OF EDUCATION	58,352	4,881	875	-	39,142	-	11,837	-	902	715	
DEPARTMENT OF ENERGY	1,029,825	62,554	170,016	166,946	97,405	446,787	25,360	49,016	11,231	510	
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	1,625,594	471,061	101,456	11,310	748,993	12,026	229,552	-	32,562	18,634	
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	164,358	44,747	3,450	-	86,401	-	23,803	-	5,072	885	
CENTERS FOR DISEASE CONTROL	76,757	57,751	7,952	-	1,900	-	7,284	-	120	1,750	
FOOD & DRUG ADMINISTRATION	82,100	73,800	-	-	5,000	-	3,200	-	-	100	
HEALTH CARE FINANCING ADMIN	30,000	1,583	9,387	-	5,493	7,939	-	-	5,598	-	
HEALTH RESOURCES AND SERVICES ADMINISTRATION	600	600	-	-	-	-	-	-	-	-	
HUMAN DEVELOPMENT SERVICES	5,020	220	200	-	171	-	2,530	-	1,890	9	
NATIONAL INSTITUTES OF HEALTH	1,217,673	269,601	69,634	11,310	645,340	4,087	184,299	-	17,800	15,602	
OFFICE OF ASST'T SECY FOR HEALTH	9,313	4,603	1,173	-	2,805	-	444	-	-	288	
OFFICE OF THE SECRETARY	10,500	1,995	2,305	-	1,200	-	5,000	-	-	-	
SOCIAL SECURITY ADMINISTRATION	29,273	16,161	7,355	-	683	-	2,992	-	2,082	-	
DEPT OF HOUS'ING & URBAN DEVELOPMENT ..	10,089	8,878	313	-	-	-	898	-	-	-	
DEPARTMENT OF THE INTERIOR, TOTAL	220,724	139,218	8,852	2,925	10,737	-	650	135	58,207	-	
BUREAU OF LAND MANAGEMENT	1,800	934	34	-	800	-	-	-	32	-	
BUREAU OF MINES	35,752	27,052	5,000	2,700	500	-	500	-	-	-	
BUREAU OF RECLAMATION	9,413	6,860	1,425	-	1,063	-	-	60	5	-	
GEOLOGICAL SURVEY	81,036	74,885	1,741	-	4,410	-	-	75	-	-	
MINERAL MANAGEMENT SERVICE	1,500	750	150	225	300	-	-	-	-	-	
NATIONAL PARK SERVICE	12,500	9,750	100	-	2,500	-	150	-	-	-	
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	970	640	252	-	39	-	-	-	39	-	
US FISH & WILDLIFE SERVICE	77,753	18,347	150	-	1,125	-	-	-	58,131	-	
DEPARTMENT OF JUSTICE, TOTAL	12,041	947	1,000	-	3,933	-	5,861	-	300	-	
DRUG ENFORCEMENT ADMINISTRATION	800	200	600	-	-	-	-	-	-	-	
FEDERAL PRISON SYSTEM	850	475	-	-	175	-	200	-	-	-	
IMMIGRATION & NATURALIZATION SVC	250	50	200	-	-	-	-	-	300	-	
OFF OF JUSTICE ASSIST, RSCH, & STAT	9,616	218	-	-	3,600	-	5,498	-	-	-	
OFFICE OF LEGAL POLICY	525	4	200	-	158	-	163	-	-	-	
DEPARTMENT OF LABOR, TOTAL	12,856	4,335	6,102	-	1,354	300	765	-	-	-	
BUREAU OF LABOR STATISTICS	377	377	-	-	-	-	-	-	-	-	
EMPLOYMENT STANDARDS ADMINISTRATION ..	1,250	1,050	200	-	-	-	-	-	-	-	
EMPLOYMENT AND TRAINING ADMIN	2,261	500	92	-	791	300	578	-	-	-	
LABOR-MANAGEMENT SERVICES ADMIN	1,786	786	250	-	563	-	187	-	-	-	
OCCUPATIONAL SAFETY & HEALTH ADMIN ..	5,700	400	5,300	-	-	-	-	-	-	-	
OFFICE OF THE SECRETARY	1,200	1,200	-	-	-	-	-	-	-	-	
PENSION BENEFIT GUARANTEE CORPORATION	282	22	260	-	-	-	-	-	-	-	

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TABLE C-55. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1984 (ESTIMATED)
(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA- MURAL 1/	EXTRAMURAL								FOREIGN
			UNITED STATES AND TERRITORIES								
			INDUS- TRIAL FIRMS	FFRDCS ADMIN BY INDUS- TRIAL FIRMS	UNIVER- SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON- PROFIT INSTI- TUTIONS	FFRDCS ADMIN BY NON- PROFIT INSTI- TUTIONS	STATE AND LOCAL GOVTS		
DEPARTMENT OF STATE, TOTAL	1,608	820	640	60	38	-	50	-	-	-	
DEPARTMENTAL FUNDS	1,608	820	640	60	38	-	50	-	-	-	
DEPARTMENT OF TRANSPORTATION, TOTAL ..	79,636	18,198	46,719	-	5,804	26	2,968	522	5,399	-	
COAST GUARD	3,500	1,901	1,568	-	5	26	-	-	-	-	
FEDERAL AVIATION ADMINISTRATION	23,200	3,094	20,106	-	-	-	-	-	-	-	
FEDERAL HIGHWAY ADMINISTRATION	6,400	50	3,500	-	1,500	-	1,200	-	150	-	
FEDERAL RAILROAD ADMINISTRATION	2,900	1,711	667	-	-	-	-	522	-	-	
MARITIME ADMINISTRATION	5,300	400	4,000	-	300	-	300	-	300	-	
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	22,400	6,854	11,650	-	1,574	-	1,058	-	1,264	-	
OFFICE OF THE SECRETARY	471	321	-	-	150	-	-	-	-	-	
RESEARCH & SPECIAL PROGRAMS ADMIN ..	1,800	1,000	300	-	500	-	-	-	-	-	
URBAN MASS TRANSPORTATION ADMIN	13,665	2,867	4,928	-	1,775	-	410	-	3,685	-	
DEPARTMENT OF THE TREASURY, TOTAL	7,988	3,971	3,918	-	99	-	-	-	-	-	
BUREAU OF ENGRAVING AND PRINTING ...	3,015	1,833	1,182	-	-	-	-	-	-	-	
INTERNAL REVENUE SERVICE	4,973	2,138	2,736	-	99	-	-	-	-	-	
OTHER AGENCIES											
ADVISORY COMM ON INTERGOV'TL RELATIONS	2,036	2,036	-	-	-	-	-	-	-	-	
AGENCY FOR INTERNAT'L DEVELOPMENT	140,645	8,720	10,825	-	58,473	-	6,940	-	-	55,687	
CONSUMER PRODUCT SAFETY COMMISSION ...	107	107	-	-	-	-	-	-	-	-	
ENVIRONMENTAL PROTECTION AGENCY	131,223	57,171	34,951	-	28,421	-	9,780	-	-	900	
FEDERAL COMMUNICATIONS COMMISSION	1,002	952	50	-	-	-	-	-	-	-	
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	13,000	3,250	4,940	-	1,300	2,080	1,430	-	-	-	
FEDERAL HOME LOAN BANK BOARD	3,103	2,903	-	-	200	-	-	-	-	-	
FEDERAL TRADE COMMISSION	253	253	-	-	-	-	-	-	-	-	
GENERAL SERVICES ADMINISTRATION	1,200	228	212	-	-	-	760	-	-	-	
INTERNATIONAL TRADE COMMISSION	4,385	4,385	-	-	-	-	-	-	-	-	
LIBRARY OF CONGRESS	919	919	-	-	-	-	-	-	-	-	
NATIONAL AERONAUTICS & SPACE ADMIN ...	965,359	573,532	286,143	-	34,200	36,900	32,779	5	925	875	
NATIONAL SCIENCE FOUNDATION	59,403	5,683	6,235	245	40,261	20	6,506	70	230	153	
NUCLEAR REGULATORY COMMISSION	199,740	19,600	4,075	124,104	5,885	30,106	1,825	13,360	25	760	
TENNESSEE VALLEY AUTHORITY	7,500	5,073	-	-	-	-	2,427	-	-	-	
US ARMS CONTROL & DISARMAMENT AGENCY ..	6,080	840	-	720	32	4,630	112	46	-	-	
VETERANS ADMINISTRATION	128,200	127,412	-	-	275	-	513	-	-	-	

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-56. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE:
FISCAL YEARS 1982, 1983, AND 1984

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1982	ESTIMATES	
		1983	1984
TOTAL, ALL FIELDS	7,540,580	8,068,315	8,047,859
LIFE SCIENCES, TOTAL	2,219,482	2,336,669	2,324,449
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	678,068	701,367	693,081
ENVIRONMENTAL BIOLOGY	100,368	99,886	98,624
AGRICULTURAL	358,582	382,673	357,508
MEDICAL	979,606	1,053,479	1,072,953
LIFE SCIENCES, NEC	102,858	99,264	102,283
PSYCHOLOGY, TOTAL	128,521	142,408	166,724
BIOLOGICAL ASPECTS	26,689	33,080	38,279
SOCIAL ASPECTS	64,444	70,645	87,579
PSYCHOLOGICAL SCIENCES, NEC	37,388	38,683	40,666
PHYSICAL SCIENCES, TOTAL	1,106,537	1,294,976	1,447,353
ASTRONOMY	4,670	4,868	4,913
CHEMISTRY	169,152	151,260	161,297
PHYSICS	819,767	978,733	1,086,461
PHYSICAL SCIENCES, NEC	112,948	160,115	194,482
ENVIRONMENTAL SCIENCES, TOTAL	628,254	658,265	582,699
ATMOSPHERIC	262,634	267,358	278,540
GEOLOGICAL	180,069	205,596	167,271
OCEANOGRAPHY	106,813	94,681	63,303
ENVIRONMENTAL SCIENCES, NEC	78,738	90,630	73,585
MATHEMATICS & COMPUTER SCIENCES, TOTAL	185,016	203,649	241,598
MATHEMATICS	37,269	38,075	45,764
COMPUTER SCIENCES	103,490	121,178	145,851
MATHEMATICS & COMPUTER SCIENCES, NEC	44,257	44,396	49,983
ENGINEERING, TOTAL	2,776,076	2,836,034	2,700,857
AERONAUTICAL	614,693	619,213	608,865
ASTRONAUTICAL	245,889	288,018	297,814
CHEMICAL	59,934	103,482	68,292
CIVIL	169,942	162,225	137,817
ELECTRICAL	518,561	525,746	568,331
MECHANICAL	148,108	140,995	138,367
METALLURGY & MATERIALS	153,241	156,409	161,264
ENGINEERING, NEC	865,708	839,946	720,107
SOCIAL SCIENCES, TOTAL	265,741	300,333	295,916
ANTHROPOLOGY	1,501	1,364	1,700
ECONOMICS	118,152	124,629	129,863
POLITICAL SCIENCE	3,173	3,155	3,290
SOCIOLOGY	33,266	37,440	37,953
SOCIAL SCIENCES, NEC	109,649	133,745	123,110
OTHER SCIENCES, NEC	230,953	295,981	288,463

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-57. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY- CHOLOGY	PHYSICAL SCIENCES	ENVIRON- MENTAL SCIENCES	MATHE- MATICS AND COM- PUTER SCIENCES	ENGI- NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	7,540,580	2,219,482	128,521	1,106,537	628,254	185,016	2,776,076	265,741	230,953
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	435,708	285,438	49	26,033	8,952	14,768	32,938	67,510	-
AGRICULTURAL COOPERATIVE SERVICE ...	1,704	-	-	-	-	-	-	1,704	-
AGRICULTURAL MARKETING SERVICE	1,008	1,008	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	186,226	145,819	-	17,096	1,394	829	20,147	941	-
COOPERATIVE STATE RESEARCH SERVICE ..	127,709	87,754	-	6,385	799	-	4,378	28,393	-
ECONOMIC RESEARCH SERVICE	35,343	-	-	-	-	5,973	-	29,370	-
FOREST SERVICE	68,969	41,108	69	2,552	6,759	2,966	8,413	7,102	-
HUMAN NUTRITION INFORMATION SERVICE	8,500	8,200	-	-	-	300	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	1,229	1,229	-	-	-	-	-	-	-
OFFICE OF TRANSPORTATION	320	320	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	4,700	-	-	-	-	4,700	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	259,188	58,827	133	32,645	119,170	12,443	30,242	3,624	2,104
BUREAU OF THE CENSUS	1,561	-	133	-	-	999	-	392	37
ECONOMIC DEVELOPMENT ADMINISTRATION	1,600	-	-	-	-	-	-	1,600	-
NATIONAL BUREAU OF STANDARDS	57,411	-	-	25,392	604	8,336	21,991	1,088	-
NAT'L OCEANIC & ATMOSPHERIC ADM'N ..	188,516	58,693	-	7,253	118,566	1,348	2,742	514	-
NAT'L TELECOMM & INFORMATION ADMIN ..	10,100	134	-	-	-	1,760	6,109	30	2,067
DEPARTMENT OF DEFENSE, TOTAL ..	2,266,137	134,576	62,358	500,046	109,205	113,858	1,245,038	1,129	99,927
DEPARTMENT OF THE ARMY	451,561	75,464	27,319	83,246	11,838	7,059	241,603	1,129	3,903
DEPARTMENT OF THE NAVY	498,400	7,303	13,153	128,656	20,561	18,312	310,415	-	-
DEPARTMENT OF THE AIR FORCE	488,100	38,678	19,935	50,546	35,102	26,495	316,590	-	754
DEFENSE AGENCIES	828,076	13,131	1,951	237,598	41,704	61,992	376,430	-	95,270
DEPARTMENT OF EDUCATION	56,268	15,563	2,771	-	-	-	7,241	21,310	9,383
DEPARTMENT OF ENERGY	1,053,877	125,747	-	482,809	69,924	3,545	367,052	3,405	1,395
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	1,460,890	1,159,538	64,500	17,585	-	3,971	16,541	105,302	103,453
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	128,725	70,491	36,501	350	-	339	-	18,602	2,442
CENTERS FOR DISEASE CONTROL	75,039	75,039	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	73,000	73,000	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	29,083	-	-	-	-	-	-	29,083	-
HEALTH RESOURCES AND SERVICES ADMINISTRATION	6,098	941	-	-	-	-	-	-	5,157
HUMAN DEVELOPMENT SERVICES	8,299	-	-	-	-	-	-	8,299	-
NATIONAL INSTITUTES OF HEALTH	1,103,802	940,067	17,999	17,235	-	3,632	16,541	12,474	95,854
OFFICE OF ASST'T SECY FOR HEALTH	8,220	-	-	-	-	-	-	8,220	-
OFFICE OF THE SECRETARY	13,085	-	-	-	-	-	-	13,085	-
SOCIAL SECURITY ADMINISTRATION	15,539	-	-	-	-	-	-	15,539	-
DEPT OF HOUSING & URBAN DEVELOPMENT ..	10,310	-	-	-	-	-	1,134	9,176	-
DEPARTMENT OF THE INTERIOR, TOTAL	275,006	90,226	-	10,240	95,792	1,933	74,973	1,832	10
BUREAU OF LAND MANAGEMENT	2,388	2,124	-	-	264	-	-	-	-
BUREAU OF MINES	65,172	-	-	5,570	-	-	59,602	-	-
BUREAU OF RECLAMATION	8,893	350	-	-	5,049	-	2,440	54	-
GEOLOGICAL SURVEY	99,435	-	-	3,975	85,699	1,556	8,205	-	-
NATIONAL PARK SERVICE	11,203	6,579	-	62	3,082	3	63	1,404	10
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1,500	378	-	58	828	219	293	24	-
OFFICE OF WATER RES. & TECHNOLOGY ..	6,840	1,220	-	575	1,170	155	3,370	350	-
US FISH & WILDLIFE SERVICE	79,575	79,575	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	13,218	-	1,469	400	-	-	1,150	10,199	-
DRUG ENFORCEMENT ADMINISTRATION	1,300	-	-	400	-	-	900	-	-
FEDERAL PRISON SYSTEM	948	-	250	-	-	-	-	698	-
IMMIGRATION & NATURALIZATION SVC	250	-	-	-	-	-	250	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT ..	10,328	-	1,219	-	-	-	-	9,109	-
OFFICE OF LEGAL POLICY	392	-	-	-	-	-	-	392	-
DEPARTMENT OF LABOR, TOTAL	10,647	-	-	-	-	-	-	10,647	-
BUREAU OF LABOR STATISTICS	291	-	-	-	-	-	-	291	-
EMPLOYMENT STANDARDS ADMINISTRATION	1,400	-	-	-	-	-	-	1,400	-
EMPLOYMENT AND TRAINING ADMIN	2,146	-	-	-	-	-	-	2,146	-
LABOR-MANAGEMENT SERVICES ADMIN	715	-	-	-	-	-	-	715	-
OCCUPATIONAL SAFETY & HEALTH ADMIN ..	4,900	-	-	-	-	-	-	4,900	-
OFFICE OF THE SECRETARY	900	-	-	-	-	-	-	900	-
PENSION BENEFIT GUARANTEE CORPORATION	295	-	-	-	-	-	-	295	-

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TABLE C-57. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY- CHOLOGY	PHYSICAL SCIENCES	ENVIRON- MENTAL SCIENCES	MATHE- MATICS AND COM- PUTER SCIENCES	ENGI- NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF STATE, TOTAL	1,549	-	-	-	143	-	-	1,406	-
DEPARTMENTAL FUNDS	1,549	-	-	-	143	-	-	1,406	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	65,685	3,987	250	1,194	922	912	47,318	10,961	141
COAST GUARD	1,650	-	250	600	-	200	400	200	-
FEDERAL AVIATION ADMINISTRATION	7,000	-	-	-	-	-	7,000	-	-
FEDERAL HIGHWAY ADMINISTRATION	5,300	259	-	594	922	300	2,981	103	141
FEDERAL RAILROAD ADMINISTRATION	3,100	-	-	-	-	12	3,084	4	-
MARITIME ADMINISTRATION	5,600	-	-	-	-	400	5,000	200	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	21,300	3,728	-	-	-	-	8,590	8,982	-
OFFICE OF THE SECRETARY	260	-	-	-	-	-	60	200	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	2,100	-	-	-	-	-	1,098	1,002	-
URBAN MASS TRANSPORTATION ADMIN	19,375	-	-	-	-	-	19,105	270	-
DEPARTMENT OF THE TREASURY, TOTAL	5,949	-	-	2,772	-	2,023	97	1,057	-
BUREAU OF ENGRAVING AND PRINTING ...	2,821	-	-	2,724	-	-	97	-	-
INTERNAL REVENUE SERVICE	3,086	-	-	-	-	2,023	-	1,057	-
UNITED STATES CUSTOMS SERVICE	48	-	-	48	-	-	-	-	-
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	2,033	-	-	-	-	-	-	2,033	-
AGENCY FOR INTERNAT'L DEVELOPMENT	127,904	113,879	-	-	-	1,426	12,117	482	-
APPALACHIAN REGIONAL COMMISSION	300	-	-	-	-	-	-	300	-
CONSUMER PRODUCT SAFETY COMMISSION ...	56	56	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	210,692	71,996	514	16,612	43,744	3,339	66,108	476	7,903
FEDERAL COMMUNICATIONS COMMISSION	1,244	-	-	-	-	-	788	376	80
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	7,774	509	412	711	453	594	3,128	1,312	655
FEDERAL HOME LOAN BANK BOARD	2,701	-	-	-	-	-	-	2,701	-
FEDERAL TRADE COMMISSION	179	-	-	-	-	-	537	179	-
GENERAL SERVICES ADMINISTRATION	537	-	-	-	-	-	-	-	-
INTERNATIONAL TRADE COMMISSION	3,764	-	-	-	-	-	-	3,764	-
LIBRARY OF CONGRESS	712	-	-	-	-	-	-	-	712
NATIONAL AERONAUTICS & SPACE ADMIN ...	871,407	40,490	1,064	8,927	173,509	23,469	622,823	13	1,112
NATIONAL SCIENCE FOUNDATION	57,087	13,771	359	6,030	5,321	2,493	18,559	6,276	4,078
NUCLEAR REGULATORY COMMISSION	220,287	-	-	-	-	-	220,287	-	-
TENNESSEE VALLEY AUTHORITY	8,100	2,100	-	-	-	948	5,052	-	-
US ARMS CONTROL & DISARMAMENT AGENCY ..	1,271	-	-	-	533	171	254	271	-
VETERANS ADMINISTRATION	110,100	102,779	4,622	-	-	-	2,699	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-58. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)
(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON- MENTAL SCIENCES	MATHE- MATICS AND COM- PUTER SCIENCES	ENGI- NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	8,068,315	2,336,669	142,408	1,294,976	658,265	203,649	2,836,034	300,333	295,981
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	459,153	304,054	65	27,784	8,600	15,376	34,341	68,933	-
AGRICULTURAL COOPERATIVE SERVICE	1,716	-	-	-	-	-	-	1,716	-
AGRICULTURAL MARKETING SERVICE	1,250	1,250	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	202,265	158,378	-	18,569	1,514	900	21,882	1,022	-
COOPERATIVE STATE RESEARCH SERVICE	137,308	94,350	-	6,865	859	-	4,707	30,527	-
ECONOMIC RESEARCH SERVICE	35,068	-	-	-	-	5,944	-	29,124	-
FOREST SERVICE	63,538	37,868	65	2,350	6,227	2,732	7,752	6,544	-
HUMAN NUTRITION INFORMATION SERVICE	8,200	7,700	-	-	-	500	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	4,225	4,225	-	-	-	-	-	-	-
OFFICE OF TRANSPORTATION	283	283	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	5,300	-	-	-	-	5,300	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	262,166	59,580	142	35,213	114,339	12,388	35,645	3,038	1,821
BUREAU OF THE CENSUS	1,690	-	142	-	-	1,082	-	425	41
ECONOMIC DEVELOPMENT ADMINISTRATION	2,000	-	-	-	-	-	-	2,000	-
NATIONAL BUREAU OF STANDARDS	62,859	-	-	25,897	279	8,075	28,428	180	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	187,417	59,580	-	9,016	114,060	1,915	2,429	417	-
NAT'L TELECOMM & INFORMATION ADMIN	7,900	-	-	-	-	1,316	4,788	16	1,780
OFFICE OF THE SECRETARY	300	-	-	300	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	2,391,690	145,802	66,344	565,026	151,549	118,260	1,236,003	2,596	106,110
DEPARTMENT OF THE ARMY	457,972	86,217	29,457	76,050	11,562	6,748	240,111	1,232	6,595
DEPARTMENT OF THE NAVY	507,900	5,933	12,738	128,761	19,009	20,026	221,433	-	-
DEPARTMENT OF THE AIR FORCE	499,000	39,294	22,616	53,011	36,962	27,464	318,867	-	786
DEFENSE AGENCIES	926,818	14,358	1,533	307,204	84,016	64,022	355,592	1,364	98,729
DEPARTMENT OF EDUCATION	63,488	15,891	2,975	-	-	-	7,773	24,254	12,595
DEPARTMENT OF ENERGY	1,451,532	118,179	-	576,861	77,813	9,012	414,524	7,747	47,396
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,584,345	1,251,412	59,473	19,146	-	4,305	17,991	119,097	112,921
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	145,081	79,135	39,923	435	-	347	-	21,576	3,665
CENTERS FOR DISEASE CONTROL	71,566	71,566	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	76,600	76,600	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	30,000	-	-	-	-	-	-	30,000	-
HEALTH RESOURCES AND SERVICES ADMINISTRATION	7,750	2,600	-	-	-	-	-	-	5,150
HUMAN DEVELOPMENT SERVICES	6,928	-	-	-	-	-	-	6,928	-
NATIONAL INSTITUTES OF HEALTH	1,199,380	1,021,511	19,550	18,711	-	3,958	17,991	13,553	104,106
OFFICE OF ASST'T SECY FOR HEALTH	8,532	-	-	-	-	-	-	8,532	-
OFFICE OF THE SECRETARY	14,218	-	-	-	-	-	-	14,218	-
SOCIAL SECURITY ADMINISTRATION	24,290	-	-	-	-	-	-	24,290	-
DEPT OF HOUSING & URBAN DEVELOPMENT	11,936	-	-	-	-	-	1,313	10,623	-
DEPARTMENT OF THE INTERIOR, TOTAL	268,739	93,239	-	10,653	85,654	2,188	75,407	1,588	10
BUREAU OF LAND MANAGEMENT	1,947	1,692	-	-	255	-	-	-	-
BUREAU OF MINES	66,078	-	-	5,150	-	-	60,928	-	-
BUREAU OF RECLAMATION	8,850	311	-	-	3,903	-	4,601	35	-
GEOLOGICAL SURVEY	90,297	-	-	4,700	77,726	1,945	5,926	-	-
MINERAL MANAGEMENT SERVICE	1,500	-	-	-	-	-	1,500	-	-
NATIONAL PARK SERVICE	11,806	7,425	-	63	3,022	3	57	1,226	10
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1,478	615	-	70	198	60	465	70	-
OFFICE OF MATER RSCH & TECHNOLOGY	4,417	830	-	670	550	180	1,930	257	-
US FISH & WILDLIFE SERVICE	82,366	82,366	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	19,653	-	2,238	200	-	-	950	16,265	-
DRUG ENFORCEMENT ADMINISTRATION	800	-	-	200	-	-	600	-	-
FEDERAL PRISON SYSTEM	1,100	-	250	-	-	-	-	850	-
IMMIGRATION & NATURALIZATION SVC	350	-	-	-	-	-	350	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	16,811	-	1,988	-	-	-	-	14,823	-
OFFICE OF LEGAL POLICY	592	-	-	-	-	-	-	592	-
DEPARTMENT OF LABOR, TOTAL	12,032	-	-	-	-	-	-	12,032	-
BUREAU OF LABOR STATISTICS	315	-	-	-	-	-	-	315	-
EMPLOYMENT STANDARDS ADMINISTRATION	2,000	-	-	-	-	-	-	2,000	-
EMPLOYMENT AND TRAINING ADMIN	1,997	-	-	-	-	-	-	1,997	-
LABOR-MANAGEMENT SERVICES ADMIN	751	-	-	-	-	-	-	751	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	5,700	-	-	-	-	-	-	5,700	-
OFFICE OF THE SECRETARY	1,000	-	-	-	-	-	-	1,000	-
PENSION BENEFIT GUARANTEE CORPORATION	269	-	-	-	-	-	-	269	-

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TABLE C-58. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)
(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF STATE, TOTAL	1,596	-	-	-	140	-	-	1,456	-
DEPARTMENTAL FUNDS	1,596	-	-	-	140	-	-	1,456	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	77,197	4,491	100	1,750	950	841	56,714	12,201	150
COAST GUARD	1,350	-	100	1,100	-	-	-	150	-
FEDERAL AVIATION ADMINISTRATION	12,500	-	-	-	-	-	12,500	-	-
FEDERAL HIGHWAY ADMINISTRATION	7,100	500	-	650	950	323	4,427	100	150
FEDERAL RAILROAD ADMINISTRATION	5,100	-	-	-	-	18	5,075	7	-
MARITIME ADMINISTRATION	7,550	-	-	-	-	500	6,650	400	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	22,800	3,991	-	-	-	-	9,198	9,611	-
OFFICE OF THE SECRETARY	263	-	-	-	-	-	50	213	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	2,500	-	-	-	-	-	1,280	1,220	-
URBAN MASS TRANSPORTATION ADMIN	18,034	-	-	-	-	-	17,534	500	-
DEPARTMENT OF THE TREASURY, TOTAL	7,922	-	-	2,868	-	3,081	102	1,871	-
BUREAU OF ENGRAVING AND PRINTING ...	2,970	-	-	2,868	-	-	102	-	-
INTERNAL REVENUE SERVICE	4,952	-	-	-	-	3,081	-	1,871	-
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,956	-	-	-	-	-	-	1,956	-
AGENCY FOR INTERNAT'L DEVELOPMENT	117,287	104,821	-	-	-	490	11,131	845	-
APPALACHIAN REGIONAL COMMISSION	300	-	-	-	-	-	-	300	-
CONSUMER PRODUCT SAFETY COMMISSION ...	302	-	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	153,187	56,518	597	13,839	29,993	3,431	41,559	362	6,888
FEDERAL COMMUNICATIONS COMMISSION	1,212	-	-	-	-	-	948	264	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	3,675	329	266	459	292	221	838	847	423
FEDERAL HOME LOAN BANK BOARD	2,988	-	-	-	-	-	-	2,988	-
FEDERAL TRADE COMMISSION	261	-	-	-	-	-	-	261	-
GENERAL SERVICES ADMINISTRATION	445	-	-	-	-	250	195	-	-
INTERNATIONAL TRADE COMMISSION	3,989	-	-	-	-	-	-	3,989	-
LIBRARY OF CONGRESS	870	-	-	-	-	-	-	-	870
NATIONAL AERONAUTICS & SPACE ADMIN ...	956,871	47,805	1,330	33,893	182,173	31,196	659,274	-	1,200
NATIONAL SCIENCE FOUNDATION	61,671	13,975	416	6,931	5,606	2,610	20,020	6,516	5,597
NUCLEAR REGULATORY COMMISSION	209,500	-	-	-	-	-	209,500	-	-
TENNESSEE VALLEY AUTHORITY	10,000	1,600	-	-	-	986	7,414	-	-
US ARMS CONTROL & DISARMAMENT AGENCY ..	1,152	-	-	353	170	-	325	304	-
VETERANS ADMINISTRATION	131,200	118,671	8,462	-	-	-	4,067	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-59. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1984 (ESTIMATED)
(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY- CHOLOGY	PHYSICAL SCIENCES	ENVIRON- MENTAL SCIENCES	MATHE- MATICS AND COM- PUTER SCIENCES	ENGI- NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	8,047,859	2,324,449	166,524	1,447,353	582,699	241,598	2,700,857	295,916	288,463
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	438,081	285,096	59	26,380	8,071	15,692	32,639	70,144	-
AGRICULTURAL COOPERATIVE SERVICE	1,360	-	-	-	-	-	-	1,360	-
AGRICULTURAL RESEARCH SERVICE	94,709	152,482	-	17,875	1,457	867	21,065	963	-
COOPERATIVE STATE RESEARCH SERVICE	126,135	86,672	-	6,307	789	-	4,324	28,043	-
ECONOMIC RESEARCH SERVICE	40,522	-	-	-	-	6,868	-	33,654	-
FOREST SERVICE	59,435	35,422	59	2,198	5,825	2,557	7,250	6,124	-
HUMAN NUTRITION INFORMATION SERVICE	6,400	6,600	-	-	-	-	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	3,620	3,620	-	-	-	-	-	-	-
OFFICE OF TRANSPORTATION	300	300	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	5,400	-	-	-	-	5,400	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	183,204	28,851	146	33,513	78,739	11,742	27,150	941	2,122
BUREAU OF THE CENSUS	1,735	-	146	-	-	1,111	-	436	42
NATIONAL BUREAU OF STANDARDS	55,105	-	-	25,431	289	7,696	21,502	187	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	118,614	28,851	-	7,632	78,450	1,619	1,744	318	-
NAT'L TELECOMM & INFORMATION ADMIN	7,300	-	-	-	-	1,316	3,904	-	-
OFFICE OF THE SECRETARY	450	-	450	-	-	-	-	-	2,080
DEPARTMENT OF DEFENSE, TOTAL	2,703,706	150,413	83,784	710,865	143,183	144,487	1,336,672	2,244	132,058
DEPARTMENT OF THE ARMY	525,539	85,883	41,184	76,695	14,158	8,818	291,994	1,722	5,085
DEPARTMENT OF THE NAVY	552,800	6,508	12,829	145,475	18,026	24,074	345,888	-	-
DEPARTMENT OF THE AIR FORCE	526,000	42,736	29,771	55,183	40,175	28,877	328,439	-	819
DEFENSE AGENCIES	1,099,367	15,286	-	433,512	70,824	82,718	370,351	522	126,154
DEPARTMENT OF EDUCATION	58,352	16,001	2,975	-	-	-	7,773	21,182	10,421
DEPARTMENT OF ENERGY	1,029,825	121,253	-	578,312	64,808	6,792	238,949	2,769	16,942
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,625,594	1,284,861	65,197	20,496	-	4,388	18,265	121,102	111,285
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	164,358	88,312	45,349	1,500	-	370	-	23,236	5,591
CENTERS FOR DISEASE CONTROL	76,757	76,757	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	82,100	82,100	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	30,000	-	-	-	-	-	-	30,000	-
HEALTH RESOURCES AND SERVICES ADMINISTRATION	600	600	-	-	-	-	-	-	-
HUMAN DEVELOPMENT SERVICES	5,020	-	-	-	-	-	-	5,020	-
NATIONAL INSTITUTES OF HEALTH	1,217,673	1,037,092	19,848	18,996	-	4,018	18,265	13,760	105,694
OFFICE OF ASST'T SECY FOR HEALTH	9,313	-	-	-	-	-	-	9,313	-
OFFICE OF THE SECRETARY	10,500	-	-	-	-	-	-	10,500	-
SOCIAL SECURITY ADMINISTRATION	29,273	-	-	-	-	-	-	29,273	-
DEPT OF HOUSING & URBAN DEVELOPMENT	10,089	-	-	-	-	-	1,109	8,980	-
DEPARTMENT OF THE INTERIOR, TOTAL	220,724	87,126	-	10,723	78,285	2,185	40,739	1,666	-
BUREAU OF LAND MANAGEMENT	1,800	1,550	-	-	250	-	-	-	-
BUREAU OF MINES	35,752	-	-	5,100	-	-	30,652	-	-
BUREAU OF RECLAMATION	9,413	323	-	-	4,885	-	4,169	36	-
GEOLOGICAL SURVEY	81,036	-	-	5,300	69,650	2,185	3,901	-	-
MINERAL MANAGEMENT SERVICE	1,500	-	-	-	-	-	1,500	-	-
NATIONAL PARK SERVICE	12,500	7,500	-	-	3,500	-	-	1,500	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	970	-	-	323	-	-	517	130	-
US FISH & WILDLIFE SERVICE	77,753	77,753	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	12,041	-	950	200	-	-	850	10,041	-
DRUG ENFORCEMENT ADMINISTRATION	800	-	-	200	-	-	600	-	-
FEDERAL PRISON SYSTEM	850	-	250	-	-	-	-	600	-
IMMIGRATION & NATURALIZATION SVC	250	-	-	-	-	-	250	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	9,616	-	700	-	-	-	-	8,916	-
OFFICE OF LEGAL POLICY	525	-	-	-	-	-	-	525	-
DEPARTMENT OF LABOR, TOTAL	12,856	-	-	-	-	-	-	12,856	-
BUREAU OF LABOR STATISTICS	377	-	-	-	-	-	-	377	-
EMPLOYMENT STANDARDS ADMINISTRATION	1,250	-	-	-	-	-	-	1,250	-
EMPLOYMENT AND TRAINING ADMIN	2,261	-	-	-	-	-	-	2,261	-
LABOR-MANAGEMENT SERVICES ADMIN	1,786	-	-	-	-	-	-	1,786	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	5,700	-	-	-	-	-	-	5,700	-
OFFICE OF THE SECRETARY	1,200	-	-	-	-	-	-	1,200	-
PENSION BENEFIT GUARANTEE CORPORATION	282	-	-	-	-	-	-	282	-

CONTINUED ON NEXT PAGE

TABLE C-59. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1984 (ESTIMATED)
(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY- CHOLOGY	PHYSICAL SCIENCES	ENVIROM- MENTAL SCIENCES	MATHE- MATICS AND COM- PUTER SCIENCES	ENGI- NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF STATE, TOTAL	1,608	-	-	-	240	-	-	1,368	-
DEPARTMENTAL FUNDS	1,608	-	-	-	240	-	-	1,368	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	79,636	4,121	350	1,100	850	760	60,541	11,814	100
COAST GUARD	3,500	-	150	600	100	-	2,100	550	-
FEDERAL AVIATION ADMINISTRATION	23,200	-	-	-	-	-	23,200	-	-
FEDERAL HIGHWAY ADMINISTRATION	6,400	200	-	500	750	450	4,300	100	100
FEDERAL RAILROAD ADMINISTRATION	2,900	-	200	-	-	10	2,690	-	-
MARITIME ADMINISTRATION	5,300	-	-	-	-	300	4,800	200	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	22,400	3,921	-	-	-	-	9,036	9,443	-
OFFICE OF THE SECRETARY	471	-	-	-	-	-	50	421	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	1,800	-	-	-	-	-	1,100	700	-
URBAN MASS TRANSPORTATION ADMIN	13,665	-	-	-	-	-	13,265	400	-
DEPARTMENT OF THE TREASURY, TOTAL	7,988	-	-	2,911	-	3,210	104	1,763	-
BUREAU OF ENGRAVING AND PRINTING ...	3,015	-	-	2,911	-	-	104	-	-
INTERNAL REVENUE SERVICE	4,973	-	-	-	-	3,210	-	1,763	-
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	2,036	-	-	-	-	-	-	2,036	-
AGENCY FOR INTERNAT'L DEVELOPMENT	140,645	122,010	-	-	-	600	17,218	817	-
CONSUMER PRODUCT SAFETY COMMISSION ...	107	107	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	131,223	49,686	595	11,655	25,484	3,019	24,542	8,284	7,958
FEDERAL COMMUNICATIONS COMMISSION	1,002	-	-	-	-	-	920	82	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	13,000	1,163	941	1,624	1,034	783	2,963	2,996	1,496
FEDERAL HOME LOAN BANK BOARD	3,103	-	-	-	-	-	-	3,103	-
FEDERAL TRADE COMMISSION	253	-	-	-	-	-	-	253	-
GENERAL SERVICES ADMINISTRATION	1,200	-	-	-	-	950	250	-	-
INTERNATIONAL TRADE COMMISSION	4,385	-	-	-	-	-	-	4,385	-
LIBRARY OF CONGRESS	919	-	-	-	-	-	-	-	919
NATIONAL AERONAUTICS & SPACE ADMIN ...	965,359	43,161	1,491	37,200	176,634	44,186	661,487	-	1,200
NATIONAL SCIENCE FOUNDATION	59,403	13,889	421	7,054	4,035	2,804	20,434	6,804	3,962
NUCLEAR REGULATORY COMMISSION	199,740	-	-	-	-	-	199,740	-	-
TENNESSEE VALLEY AUTHORITY	7,500	2,100	-	-	1,170	-	4,230	-	-
US ARMS CONTROL & DISARMAMENT AGENCY ..	6,080	-	-	5,320	166	-	308	286	-
VETERANS ADMINISTRATION	128,200	114,611	9,615	-	-	-	3,974	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-60. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY
AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO- LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO- LOGICAL SCIENCES NEC	TOTAL	BIO- LOGICAL	ENVIRON- MENTAL BIOLOGY	AGRI- CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	128,521	26,689	64,444	37,388	2,219,482	678,068	100,368	358,582	979,606	102,858
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	69	-	69	-	285,438	25,495	35,640	216,212	8,091	-
AGRICULTURAL MARKETING SERVICE	-	-	-	-	1,008	-	-	1,008	-	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	145,819	4,417	6,670	132,420	2,312	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	87,754	8,940	-	73,035	5,779	-
FOREST SERVICE	69	-	69	-	41,108	12,138	28,970	-	-	-
HUMAN NUTRITION INFORMATION SERVICE	-	-	-	-	8,200	-	-	8,200	-	-
OFF OF INTERNAT'L COOPERATION & DEV	-	-	-	-	1,229	-	-	1,229	-	-
OFFICE OF TRANSPORTATION	-	-	-	-	320	-	-	320	-	-
DEPARTMENT OF COMMERCE, TOTAL	133	-	133	-	58,827	134	1,544	56,981	168	-
BUREAU OF THE CENSUS	133	-	133	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	-	-	-	-	58,693	-	1,544	56,981	168	-
NAT'L TELECOMM & INFORMATION ADMIN	-	-	-	-	134	134	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	62,358	-	49,765	12,593	134,576	18,208	3,476	228	76,072	36,592
DEPARTMENT OF THE ARMY	27,319	-	27,319	-	75,464	4,645	2,028	228	68,514	49
DEPARTMENT OF THE NAVY	13,153	-	638	12,515	7,303	512	-	-	6,791	-
DEPARTMENT OF THE AIR FORCE	19,935	-	19,935	-	38,678	-	1,448	-	767	36,463
DEFENSE AGENCIES	1,951	-	1,873	78	13,131	13,051	-	-	-	80
DEPARTMENT OF EDUCATION	2,771	-	-	2,771	15,563	-	-	-	11,785	3,778
DEPARTMENT OF ENERGY	-	-	-	-	125,747	73,368	-	4,063	22,104	26,212
DEPT OF HLTH & HUMAN SERVICES, TOTAL	54,500	21,486	11,446	21,568	1,159,538	430,349	77	-	694,048	35,064
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	36,501	21,486	11,446	3,569	70,491	34,358	-	-	28,929	7,204
CENTERS FOR DISEASE CONTROL	-	-	-	-	75,039	-	-	-	75,039	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	73,000	43,800	-	-	29,200	-
HEALTH RESOURCES AND SERVICES ADMINISTRATION	-	-	-	-	941	-	-	-	941	-
NATIONAL INSTITUTES OF HEALTH	17,999	-	-	17,999	940,067	352,191	77	-	559,939	27,860
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	-	-	90,226	50,133	32,822	7,271	-	-
BUREAU OF LAND MANAGEMENT	-	-	-	-	2,124	-	283	1,841	-	-
BUREAU OF RECLAMATION	-	-	-	-	350	350	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	6,579	2,267	-	4,312	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	-	-	-	-	378	-	-	-	378	-
OFFICE OF WATER RSCH & TECHNOLOGY	-	-	-	-	1,220	100	380	740	-	-
US FISH & WILDLIFE SERVICE	-	-	-	-	79,575	47,416	32,159	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	1,469	-	1,469	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	250	-	250	-	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	1,219	-	1,219	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	250	-	-	250	3,987	3,728	53	-	-	206
COAST GUARD	250	-	-	250	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	-	-	-	-	259	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	-	-	-	-	3,728	3,728	53	-	-	206
OTHER AGENCIES										
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	113,879	13,019	-	59,833	41,027	-
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	56	56	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	514	514	-	-	71,996	37,015	18,331	1,281	15,369	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	412	-	412	-	509	-	282	-	227	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,064	-	912	152	40,490	7,746	20	10,834	21,031	859
NATIONAL SCIENCE FOUNDATION	359	82	223	54	13,771	5,722	7,623	279	-	147
TENNESSEE VALLEY AUTHORITY	-	-	-	-	2,100	-	500	1,600	-	-
VETERANS ADMINISTRATION	4,622	4,607	15	-	102,779	13,095	-	-	89,684	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-61. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRONMENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	142,408	33,080	70,645	38,683	2,336,669	701,367	99,886	382,673	1,053,479	99,264
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	65	-	65	-	304,054	25,591	33,929	235,775	8,759	-
AGRICULTURAL MARKETING SERVICE	-	-	-	-	1,250	-	-	1,250	-	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	158,378	4,797	7,244	143,826	2,511	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	94,350	9,611	-	78,491	6,248	-
FOREST SERVICE	65	-	65	-	37,868	11,183	26,685	-	-	-
HUMAN NUTRITION INFORMATION SERVICE	-	-	-	-	7,700	-	-	7,700	-	-
OFF OF INTERNAT'L COOPERATION & DEV	-	-	-	-	4,225	-	-	4,225	-	-
OFFICE OF TRANSPORTATION	-	-	-	-	283	-	-	283	-	-
DEPARTMENT OF COMMERCE, TOTAL	142	-	142	-	59,580	-	-	59,580	-	-
BUREAU OF THE CENSUS	142	-	142	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	-	-	-	-	59,580	-	-	59,580	-	-
DEPARTMENT OF DEFENSE, TOTAL	66,344	-	53,973	12,371	145,802	20,018	3,589	219	84,907	37,069
DEPARTMENT OF THE ARMY	29,457	-	29,457	-	86,217	5,595	2,103	219	73,260	40
DEPARTMENT OF THE NAVY	12,738	-	462	12,276	5,933	193	-	-	5,740	-
DEPARTMENT OF THE AIR FORCE	22,616	-	22,616	-	39,294	-	1,486	-	779	37,029
DEFENSE AGENCIES	1,533	-	1,438	95	14,358	14,230	-	-	128	-
DEPARTMENT OF EDUCATION	2,975	-	-	2,975	15,891	-	-	-	13,381	2,510
DEPARTMENT OF ENERGY	-	-	-	-	118,179	66,348	-	9,000	21,522	21,309
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	59,473	23,950	12,456	23,067	1,251,412	467,943	80	-	746,298	37,091
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	39,923	23,950	12,456	3,517	79,135	39,237	-	-	33,031	6,867
CENTERS FOR DISEASE CONTROL	-	-	-	-	71,566	-	-	-	71,566	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	76,600	45,960	-	-	30,640	-
HEALTH RESOURCES AND SERVICES ADMINISTRATION	-	-	-	-	2,600	-	-	-	2,600	-
NATIONAL INSTITUTES OF HEALTH	19,550	-	-	19,550	1,021,511	382,746	80	-	608,461	30,224
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	-	-	93,239	52,330	38,226	2,683	-	-
BUREAU OF LAND MANAGEMENT	-	-	-	-	1,692	-	84	1,608	-	-
BUREAU OF RECLAMATION	-	-	-	-	311	311	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	7,425	2,036	5,389	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	-	-	-	-	615	70	70	475	-	-
OFFICE OF WATER RSCH & TECHNOLOGY ..	-	-	-	-	830	110	120	600	-	-
US FISH & WILDLIFE SERVICE	-	-	-	-	82,366	49,803	32,563	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	2,238	-	2,238	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	250	-	250	-	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT ..	1,988	-	1,988	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	100	-	100	-	4,491	3,991	75	-	200	225
COAST GUARD	100	-	100	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	-	-	-	-	500	-	75	-	200	225
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	-	-	-	-	3,991	3,991	-	-	-	-
OTHER AGENCIES										
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	104,821	11,650	464	59,406	33,301	-
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	702	302	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	597	597	-	-	56,518	27,089	15,540	2,296	11,593	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	266	-	266	-	329	-	182	-	147	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,330	-	1,130	200	47,805	9,149	50	11,901	25,855	850
NATIONAL SCIENCE FOUNDATION	416	85	261	70	13,975	5,801	7,651	313	-	210
TENNESSEE VALLEY AUTHORITY	-	-	-	-	1,600	-	100	1,500	-	-
VETERANS ADMINISTRATION	8,462	8,448	14	-	118,671	11,155	-	-	167,516	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-62. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1984 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRONMENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	166,524	38,279	87,579	40,666	2,324,449	693,081	98,624	357,508	1,072,953	102,283
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	59	-	59	-	285,096	23,907	31,936	221,128	8,125	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	152,482	4,618	6,974	138,473	2,417	-
COOPERATIVE STATE RESEARCH SERVICE ..	-	-	-	-	86,672	8,829	-	72,135	5,708	-
FOREST SERVICE	59	-	59	-	35,422	10,460	24,962	-	-	-
HUMAN NUTRITION INFORMATION SERVICE	-	-	-	-	6,600	-	-	6,600	-	-
OFF OF INTERNAT'L COOPERATION & DEV	-	-	-	-	3,620	-	-	3,620	-	-
OFFICE OF TRANSPORTATION	-	-	-	-	300	-	-	300	-	-
DEPARTMENT OF COMMERCE, TOTAL	146	-	146	-	28,851	-	-	28,851	-	-
BUREAU OF THE CENSUS	146	-	146	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	-	-	-	-	28,851	-	-	28,851	-	-
DEPARTMENT OF DEFENSE, TOTAL	83,784	-	71,163	12,621	150,413	18,585	2,447	1,392	87,505	40,484
DEPARTMENT OF THE ARMY	41,184	-	41,184	-	85,883	2,781	826	1,392	80,844	40
DEPARTMENT OF THE NAVY	12,829	-	208	12,621	6,908	694	-	-	5,814	-
DEPARTMENT OF THE AIR FORCE	29,771	-	29,771	-	42,736	-	1,621	-	847	40,268
DEFENSE AGENCIES	-	-	-	-	15,286	15,110	-	-	-	176
DEPARTMENT OF EDUCATION	2,975	-	-	2,975	16,001	-	-	-	13,491	2,510
DEPARTMENT OF ENRGY	-	-	-	-	121,253	59,780	-	19,500	22,915	19,058
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	65,197	26,925	13,662	24,610	1,284,861	481,451	90	-	764,142	39,178
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	45,349	26,925	13,662	4,762	88,312	43,600	-	-	36,219	8,493
CENTERS FOR DISEASE CONTROL	-	-	-	-	76,757	-	-	-	76,757	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	82,100	49,260	-	-	32,840	-
HEALTH RESOURCES AND SERVICES ADMINISTRATION	-	-	-	-	600	-	-	-	600	-
NATIONAL INSTITUTES OF HEALTH	19,848	-	-	19,848	1,037,092	388,591	90	-	617,726	30,685
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	-	-	87,126	43,876	41,850	1,400	-	-
BUREAU OF LAND MANAGEMENT	-	-	-	-	1,550	-	150	1,400	-	-
BUREAU OF RECLAMATION	-	-	-	-	323	323	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	7,500	-	7,500	-	-	-
US FISH & WILDLIFE SERVICE	-	-	-	-	77,753	43,553	34,200	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	950	-	950	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	250	-	250	-	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT ..	700	-	700	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	350	-	150	200	4,121	3,921	50	-	-	150
COAST GUARD	150	-	150	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	-	-	-	-	200	-	50	-	-	150
FEDERAL RAILROAD ADMINISTRATION	200	-	-	200	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	-	-	-	-	3,921	3,921	-	-	-	-
OTHER AGENCIES										
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	122,010	11,500	-	77,170	33,340	-
CONSUMER PRODUCT SAFETY COMMISSION ..	-	-	-	-	107	107	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	595	595	-	-	49,686	23,630	13,326	1,662	11,068	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	941	-	941	-	1,163	-	644	-	519	-
NATIONAL AERONAUTICS & SPACE ADMIN ..	1,491	1,078	213	200	43,161	9,572	50	4,552	28,137	850
NATIONAL SCIENCE FOUNDATION	421	85	276	60	13,889	5,852	7,631	353	-	53
TENNESSEE VALLEY AUTHORITY	-	-	-	-	2,100	-	600	1,500	-	-
VETERANS ADMINISTRATION	9,615	9,596	19	-	114,611	10,900	-	-	103,711	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-63. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY
AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1962

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	1,106,537	4,670	169,152	819,767	112,948	628,254	262,634	180,069	106,813	78,738
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	26,033	-	23,953	2,080	-	8,952	2,851	6,101	-	-
AGRICULTURAL RESEARCH SERVICE	17,096	-	15,844	1,252	-	1,394	948	446	-	-
COOPERATIVE STATE RESEARCH SERVICE ..	6,385	-	6,385	-	-	799	799	-	-	-
FOREST SERVICE	2,552	-	1,724	828	-	6,759	1,104	5,655	-	-
DEPARTMENT OF COMMERCE, TOTAL	32,645	127	8,820	23,698	-	119,170	53,434	2,484	62,952	300
NATIONAL BUREAU OF STANDARDS	25,392	127	7,266	17,999	-	604	285	319	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	7,253	-	1,554	5,699	-	118,566	53,149	2,165	62,952	300
DEPARTMENT OF DEFENSE, TOTAL	500,046	1,250	66,601	334,984	97,211	109,205	63,915	22,889	18,753	3,648
DEPARTMENT OF THE ARMY	83,246	-	41,352	16,154	25,740	11,838	4,933	4,184	423	2,298
DEPARTMENT OF THE NAVY	128,656	1,250	11,657	100,032	15,717	20,561	5,768	-	14,793	-
DEPARTMENT OF THE AIR FORCE	50,546	-	13,319	34,826	2,401	35,102	30,379	4,723	-	-
DEFENSE AGENCIES	237,598	-	273	183,972	53,353	41,704	22,835	13,982	3,537	1,350
DEPARTMENT OF ENERGY	482,809	300	29,868	447,741	4,900	69,924	27,021	25,610	11,213	6,080
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	17,585	-	15,295	2,290	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	350	-	350	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	17,235	-	14,945	2,290	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	10,240	-	3,703	905	5,632	95,792	6,914	77,985	9,667	1,222
BUREAU OF LAND MANAGEMENT	-	-	-	-	-	264	30	234	-	-
BUREAU OF MINES	5,570	-	-	-	5,570	-	-	-	-	-
BUREAU OF RECLAMATION	-	-	-	-	-	5,049	4,933	-	116	-
GEOLOGICAL SURVEY	3,975	-	3,180	795	-	85,699	-	76,448	9,251	-
NATIONAL PARK SERVICE	62	-	-	-	62	3,082	1,951	69	300	762
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	58	-	58	-	-	528	-	528	-	-
OFFICE OF WATER RSCH & TECHNOLOGY ..	575	-	465	110	-	1,170	-	710	-	460
DEPARTMENT OF JUSTICE, TOTAL	400	-	-	-	400	-	-	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	400	-	-	-	400	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	-	143	-	-	143	-
DEPARTMENTAL FUNDS	-	-	-	-	-	143	-	-	143	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	1,194	-	700	494	-	922	108	530	-	284
COAST GUARD	600	-	600	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	594	-	100	494	-	922	108	530	-	284
DEPARTMENT OF THE TREASURY, TOTAL	2,772	-	1,070	145	1,557	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING ...	2,724	-	1,070	97	1,557	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	48	-	-	48	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	16,612	-	15,338	1,274	-	43,744	31,070	5,154	3,420	4,100
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	711	-	-	711	-	453	84	321	48	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	8,927	2,981	1,020	2,040	2,886	173,509	75,062	37,017	240	61,190
NATIONAL SCIENCE FOUNDATION	6,030	12	2,784	3,154	80	5,321	1,088	1,974	345	1,914
TENNESSEE VALLEY AUTHORITY	-	-	-	-	-	948	948	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY ..	533	-	-	251	282	171	139	-	32	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-64. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	1,294,976	4,868	151,260	978,733	160,115	658,265	267,358	205,596	94,681	90,630
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	27,784	-	25,662	2,122	-	8,600	2,905	5,695	-	-
AGRICULTURAL RESEARCH SERVICE	18,569	-	17,209	1,360	-	1,514	1,029	485	-	-
COOPERATIVE STATE RESEARCH SERVICE ..	6,865	-	6,865	-	-	859	859	-	-	-
FOREST SERVICE	2,350	-	1,588	762	-	6,227	1,017	5,210	-	-
DEPARTMENT OF COMMERCE, TOTAL	35,213	138	9,471	25,604	-	114,339	49,420	2,237	62,396	286
NATIONAL BUREAU OF STANDARDS	25,897	138	7,884	17,875	-	279	20	259	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	9,016	-	1,287	7,729	-	114,060	49,400	1,978	62,396	286
OFFICE OF THE SECRETARY	300	-	300	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	565,026	1,133	62,439	387,156	114,298	151,549	100,367	25,909	16,913	8,360
DEPARTMENT OF THE ARMY	76,050	-	35,772	19,897	20,381	11,562	4,557	4,257	420	2,328
DEPARTMENT OF THE NAVY	128,761	1,133	12,767	98,797	16,064	19,009	5,208	-	13,801	-
DEPARTMENT OF THE AIR FORCE	53,011	-	13,900	36,612	2,499	36,962	31,990	4,972	-	-
DEFENSE AGENCIES	307,204	-	-	231,850	75,354	84,016	58,612	16,680	2,692	6,032
DEPARTMENT OF ENERGY	576,861	390	12,806	533,341	30,324	77,813	23,732	35,903	6,101	12,077
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	19,146	-	16,627	2,519	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	435	-	435	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	18,711	-	16,192	2,519	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	10,653	-	4,420	1,020	5,213	85,654	5,996	75,270	3,523	865
BUREAU OF LAND MANAGEMENT	-	-	-	-	-	255	5	250	-	-
BUREAU OF MINES	5,150	-	-	-	5,150	-	-	-	-	-
BUREAU OF RECLAMATION	-	-	-	-	-	3,903	3,743	-	160	-
GEOLOGICAL SURVEY	4,700	-	3,840	860	-	77,726	-	74,432	3,294	-
NATIONAL PARK SERVICE	63	-	-	-	63	3,022	2,148	-	69	805
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	70	-	70	-	-	198	-	198	-	-
OFFICE OF WATER RSCH & TECHNOLOGY ..	670	-	510	160	-	550	100	390	-	60
DEPARTMENT OF JUSTICE, TOTAL	200	-	-	-	200	-	-	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	200	-	-	-	200	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	-	140	-	-	70	70
DEPARTMENTAL FUNDS	-	-	-	-	-	140	-	-	70	70
DEPARTMENT OF TRANSPORTATION, TOTAL ..	1,750	-	1,250	500	-	950	150	500	-	300
COAST GUARD	1,100	-	1,100	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	650	-	150	500	-	950	150	500	-	300
DEPARTMENT OF THE TREASURY, TOTAL	2,868	-	1,127	102	1,639	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING ...	2,868	-	1,127	102	1,639	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	13,839	-	12,808	1,031	-	29,993	-	23,410	4,629	1,954
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	459	-	-	459	-	292	54	207	31	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	33,893	3,175	1,621	21,029	8,068	182,173	83,533	33,549	250	64,841
NATIONAL SCIENCE FOUNDATION	6,931	32	3,019	3,760	120	5,606	1,131	1,930	668	1,877
TENNESSEE VALLEY AUTHORITY	-	-	-	-	-	986	-	986	-	-
US ARMS CONTROL & DISARMAMENT AGENCY ..	353	-	10	90	253	170	70	-	100	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-65. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1984 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	1,447,353	4,913	161,297	1,086,661	194,482	582,699	276,540	167,271	63,303	73,585
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	26,380	-	24,358	2,022	-	8,071	2,730	5,341	-	-
AGRICULTURAL RESEARCH SERVICE	17,875	-	16,566	1,309	-	1,457	991	466	-	-
COOPERATIVE STATE RESEARCH SERVICE ..	6,307	-	6,307	-	-	789	789	-	-	-
FOREST SERVICE	2,198	-	1,485	713	-	5,825	950	4,875	-	-
DEPARTMENT OF COMMERCE, TOTAL	33,513	143	9,047	24,323	-	78,739	44,414	1,568	32,545	212
NATIONAL BUREAU OF STANDARDS	25,431	143	7,506	17,782	-	289	21	268	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	7,632	-	1,091	6,541	-	78,450	44,393	1,300	32,545	212
OFFICE OF THE SECRETARY	450	-	450	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	710,865	1,177	74,994	472,742	161,952	143,183	84,040	30,007	17,162	11,974
DEPARTMENT OF THE ARMY	76,695	-	43,885	16,890	15,920	14,158	5,752	5,314	420	2,672
DEPARTMENT OF THE NAVY	145,475	1,177	16,548	110,303	17,447	18,026	5,718	-	12,308	-
DEPARTMENT OF THE AIR FORCE	55,183	-	14,561	38,017	2,605	40,175	34,773	5,402	-	-
DEFENSE AGENCIES	433,512	-	-	307,532	125,980	70,824	37,797	19,291	4,434	9,302
DEPARTMENT OF ENERGY	578,312	400	13,200	552,200	12,512	64,808	26,910	24,033	7,315	6,550
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	20,496	-	17,939	2,557	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	1,500	-	1,500	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	18,996	-	16,439	2,557	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	10,723	-	4,440	860	5,423	78,285	8,115	66,606	3,564	-
BUREAU OF LAND MANAGEMENT	-	-	-	-	-	250	-	250	-	-
BUREAU OF MINES	5,100	-	-	-	5,100	-	-	-	-	-
BUREAU OF RECLAMATION	-	-	-	-	-	4,885	4,715	-	170	-
GEOLOGICAL SURVEY	5,300	-	4,440	860	-	69,650	-	66,356	3,294	-
NATIONAL PARK SERVICE	-	-	-	-	-	3,500	3,400	-	100	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	323	-	-	-	323	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	200	-	-	-	200	-	-	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	200	-	-	-	200	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	-	240	-	25	145	70
DEPARTMENTAL FUNDS	-	-	-	-	-	240	-	25	145	70
DEPARTMENT OF TRANSPORTATION, TOTAL ..	1,100	-	700	400	-	850	150	400	100	200
COAST GUARD	600	-	600	-	-	100	-	-	100	-
FEDERAL HIGHWAY ADMINISTRATION	500	-	100	400	-	750	150	400	-	200
DEPARTMENT OF THE TREASURY, TOTAL	2,911	-	1,144	104	1,663	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING ...	2,911	-	1,144	104	1,663	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	11,655	-	10,730	925	-	25,484	20,445	3,426	1,613	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	1,624	-	-	1,624	-	1,034	192	733	109	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	37,200	3,175	1,722	24,947	7,356	176,634	89,028	33,245	250	54,111
NATIONAL SCIENCE FOUNDATION	7,054	18	3,013	3,872	151	4,035	1,278	1,887	402	468
TENNESSEE VALLEY AUTHORITY	-	-	-	-	-	1,170	1,170	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY ..	5,320	-	10	85	5,225	166	68	-	98	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-66. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN ENGINEERING, BY AGENCY
AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO- NAUTICAL	ASTRO- NAUTICAL	CHEMICAL	CIVIL	ELEC- TRICAL	MECHAN- ICAL	METAL- LURGY AND MATERIALS	ENGINEERING NEC
TOTAL, ALL AGENCIES	2,776,076	614,693	245,889	59,934	169,942	518,561	148,108	153,241	865,708
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	32,938	-	-	2,846	2,901	177	2,791	-	24,223
AGRICULTURAL RESEARCH SERVICE	20,147	-	-	1,674	1,384	177	722	-	16,190
COOPERATIVE STATE RESEARCH SERVICE ..	4,378	-	-	-	-	-	-	-	4,378
FOREST SERVICE	8,413	-	-	1,172	1,517	-	2,069	-	3,655
DEPARTMENT OF COMMERCE, TOTAL	30,242	-	-	1,880	5,333	10,006	1,284	5,952	5,787
NATIONAL BUREAU OF STANDARDS	21,991	-	-	1,880	4,691	2,809	1,284	5,540	5,787
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	2,142	-	-	-	642	1,088	-	412	-
NAT'L TELECOMM & INFORMATION ADMIN ..	6,109	-	-	-	-	6,109	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,245,038	218,344	75,222	28,102	37,262	432,200	114,742	79,812	259,354
DEPARTMENT OF THE ARMY	241,603	23,922	3,902	22,359	24,147	93,897	38,893	19,818	14,665
DEPARTMENT OF THE NAVY	310,415	31,069	-	2,696	3,587	76,776	42,244	26,230	127,813
DEPARTMENT OF THE AIR FORCE	316,590	99,720	51,282	2,903	2,666	123,668	10,805	16,230	9,316
DEFENSE AGENCIES	376,430	63,633	20,038	144	6,862	137,859	22,800	17,534	107,560
DEPARTMENT OF EDUCATION	7,241	-	-	-	-	-	-	-	7,241
DEPARTMENT OF ENERGY	367,052	-	2,539	1,061	43,770	44,595	3,486	20,562	251,039
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	16,541	-	-	-	-	-	-	-	16,541
NATIONAL INSTITUTES OF HEALTH	16,541	-	-	-	-	-	-	-	16,541
DEPT OF HOUSING & URBAN DEVELOPMENT ..	1,134	-	-	-	-	-	-	-	1,134
DEPARTMENT OF THE INTERIOR, TOTAL	74,973	-	-	1,292	11,176	959	1,556	27,865	32,125
BUREAU OF MINES	59,602	-	-	-	600	-	-	27,685	31,317
BUREAU OF RECLAMATION	3,440	-	-	22	2,519	252	102	-	545
GEOLOGICAL SURVEY	8,205	-	-	200	6,244	387	1,074	100	200
NATIONAL PARK SERVICE	63	-	-	-	-	-	-	-	63
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	293	-	-	-	293	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY ..	3,370	-	-	1,070	1,520	320	380	80	-
DEPARTMENT OF JUSTICE, TOTAL	1,150	-	-	-	-	1,150	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	900	-	-	-	-	900	-	-	-
IMMIGRATION & NATURALIZATION SVC ...	250	-	-	-	-	250	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	47,318	1,050	490	502	27,288	2,675	12,703	840	1,776
COAST GUARD	400	-	-	-	-	400	-	-	-
FEDERAL AVIATION ADMINISTRATION	7,000	1,050	490	-	4,550	910	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	2,951	-	-	112	2,314	75	240	240	-
FEDERAL RAILROAD ADMINISTRATION	3,084	-	-	-	1,144	246	924	-	770
MARITIME ADMINISTRATION	5,000	-	-	-	-	900	2,500	600	1,000
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	8,590	-	-	-	-	-	8,590	-	-
OFFICE OF THE SECRETARY	60	-	-	-	60	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	1,098	-	-	390	115	144	449	-	-
URBAN MASS TRANSPORTATION ADMIN	19,105	-	-	-	19,105	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	97	-	-	-	-	-	97	-	-
BUREAU OF ENGRAVING AND PRINTING ...	97	-	-	-	-	-	97	-	-
OTHER AGENCIES									
AGENCY FOR INTERNAT'L DEVELOPMENT	12,117	-	-	-	4,250	-	-	-	7,867
ENVIRONMENTAL PROTECTION AGENCY	66,108	-	-	21,586	29,599	2,645	6,304	4,952	1,022
FEDERAL COMMUNICATIONS COMMISSION	788	-	-	-	-	788	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	3,128	-	-	213	1,078	215	1,045	-	577
GENERAL SERVICES ADMINISTRATION	537	-	-	-	505	-	-	-	32
NATIONAL AERONAUTICS & SPACE ADMIN	622,823	395,208	167,462	45	-	14,636	2,687	10,387	32,398
NATIONAL SCIENCE FOUNDATION	18,559	56	1	2,407	6,780	3,998	1,413	2,871	1,033
NUCLEAR REGULATORY COMMISSION	220,287	-	-	-	-	-	-	-	220,287
TENNESSEE VALLEY AUTHORITY	5,052	-	-	-	-	4,473	-	-	579
US ARMS CONTROL & DISARMAMENT AGENCY ..	254	35	175	-	-	44	-	-	-
VETERANS ADMINISTRATION	2,699	-	-	-	-	-	-	-	2,699

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-67. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN ENGINEERING, BY AGENCY
AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO- NAUTICAL	ASTRO- NAUTICAL	CHEMICAL	CIVIL	ELEC- TRICAL	MECHAN- ICAL	METAL- LURGY AND MATERIALS	ENGI- NEERING MEC
TOTAL, ALL AGENCIES	2,836,034	619,213	288,018	103,482	162,225	525,746	140,995	156,409	839,946
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	34,341	-	-	2,899	2,901	192	2,689	-	25,660
AGRICULTURAL RESEARCH SERVICE	21,882	-	-	1,819	1,503	192	783	-	17,585
COOPERATIVE STATE RESEARCH SERVICE	4,707	-	-	-	-	-	-	-	4,707
FOREST SERVICE	7,752	-	-	1,080	1,398	-	1,906	-	3,368
DEPARTMENT OF COMMERCE, TOTAL	35,645	-	-	1,093	7,472	10,411	2,175	7,507	6,987
NATIONAL BUREAU OF STANDARDS	28,428	-	-	1,093	6,820	4,211	2,175	7,142	6,987
NAT'L OCEANIC & ATMOSPHERIC ADMIN	2,429	-	-	-	652	1,412	-	365	-
NAT'L TELECOMM & INFORMATION ADMIN	4,788	-	-	-	-	4,788	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,236,003	215,793	79,863	31,139	38,216	451,332	102,858	78,402	238,400
DEPARTMENT OF THE ARMY	240,111	24,255	3,078	25,308	24,473	100,474	33,717	12,620	16,186
DEPARTMENT OF THE NAVY	321,433	31,801	-	2,595	3,212	87,933	43,744	26,244	125,904
DEPARTMENT OF THE AIR FORCE	318,867	97,836	52,102	2,772	2,847	124,975	11,514	16,897	9,924
DEFENSE AGENCIES	355,592	61,901	24,683	464	7,684	137,950	13,883	22,641	86,386
DEPARTMENT OF EDUCATION	7,773	-	-	-	-	-	-	-	7,773
DEPARTMENT OF ENERGY	414,524	-	-	50,128	40,876	30,899	9,764	17,734	265,123
DEPT OF HLTH & HUMAN SERVICES, TOTAL	17,991	-	-	-	-	-	-	-	17,991
NATIONAL INSTITUTES OF HEALTH	17,991	-	-	-	-	-	-	-	17,991
DEPT OF HOUSING & URBAN DEVELOPMENT	1,313	-	-	-	-	-	-	-	1,313
DEPARTMENT OF THE INTERIOR, TOTAL	75,407	-	-	1,020	10,881	818	1,133	31,933	29,622
BUREAU OF MINES	60,928	-	-	-	500	-	-	31,613	28,815
BUREAU OF RECLAMATION	4,601	-	-	20	3,474	315	92	-	700
GEOLOGICAL SURVEY	5,926	-	-	-	4,812	253	861	-	-
MINERAL MANAGEMENT SERVICE	1,500	-	-	400	900	50	50	50	50
NATIONAL PARK SERVICE	57	-	-	-	-	-	-	-	57
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	465	-	-	-	195	-	-	270	-
OFFICE OF WATER RSCH & TECHNOLOGY	1,930	-	-	600	1,000	200	130	-	-
DEPARTMENT OF JUSTICE, TOTAL	950	-	-	-	-	950	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	600	-	-	-	-	600	-	-	-
IMMIGRATION & NATURALIZATION SVC	350	-	-	-	-	350	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	56,714	1,875	875	450	31,422	2,644	13,980	1,200	4,268
FEDERAL AVIATION ADMINISTRATION	12,500	1,875	875	-	8,125	1,625	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,427	-	-	150	3,627	100	250	300	-
FEDERAL RAILROAD ADMINISTRATION	5,075	-	-	-	1,881	405	1,521	-	1,268
MARITIME ADMINISTRATION	6,650	-	-	-	-	250	2,500	900	3,000
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	9,198	-	-	-	-	-	9,198	-	-
OFFICE OF THE SECRETARY	50	-	-	-	50	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	1,280	-	-	300	205	264	511	-	-
URBAN MASS TRANSPORTATION ADMIN	17,534	-	-	-	17,534	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	102	-	-	-	-	-	102	-	-
BUREAU OF ENGRAVING AND PRINTING	102	-	-	-	-	-	102	-	-
OTHER AGENCIES									
AGENCY FOR INTERNAT'L DEVELOPMENT	11,131	-	-	-	3,600	-	-	-	7,531
ENVIRONMENTAL PROTECTION AGENCY	41,559	-	-	14,053	19,066	933	3,875	2,998	634
FEDERAL COMMUNICATIONS COMMISSION	948	-	-	-	-	948	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	838	-	-	3	629	32	83	-	91
GENERAL SERVICES ADMINISTRATION	195	-	-	-	101	-	-	-	94
NATIONAL AERONAUTICS & SPACE ADMIN	659,274	401,469	207,250	50	-	16,139	2,850	13,262	18,254
NATIONAL SCIENCE FOUNDATION	20,020	61	-	2,647	7,061	4,311	1,486	3,373	1,081
NUCLEAR REGULATORY COMMISSION	209,500	-	-	-	-	-	-	-	209,500
TENNESSEE VALLEY AUTHORITY	7,414	-	-	-	-	6,117	-	-	1,297
US ARMS CONTROL & DISARMAMENT AGENCY	325	15	30	-	-	20	-	-	260
VETERANS ADMINISTRATION	4,067	-	-	-	-	-	-	-	4,067

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-68. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN ENGINEERING, BY AGENCY
AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1984 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO- NAUTICAL	ASTRO- NAUTICAL	CHEMICAL	CIVIL	ELEC- TRICAL	MECHAN- ICAL	METAL- LURGY AND MATERIALS	ENGI- NEERING NEC
TOTAL, ALL AGENCIES	2,700,857	608,865	297,814	68,292	137,817	568,331	138,367	161,264	720,107
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	32,639	-	-	2,761	2,754	185	2,538	-	24,401
AGRICULTURAL RESEARCH SERVICE	21,065	-	-	1,751	1,447	185	755	-	16,927
COOPERATIVE STATE RESEARCH SERVICE ..	4,324	-	-	-	-	-	-	-	4,324
FOREST SERVICE	7,250	-	-	1,010	1,307	-	1,783	-	3,150
DEPARTMENT OF COMMERCE, TOTAL	27,150	-	-	1,333	1,384	9,375	1,703	6,466	6,889
NATIONAL BUREAU OF STANDARDS	21,502	-	-	1,333	1,012	4,364	1,703	6,201	6,889
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	1,744	-	-	-	372	1,107	-	265	-
NAT'L TELECOMM & INFORMATION ADMIN ..	3,904	-	-	-	-	3,904	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,336,672	216,620	75,765	30,275	41,180	502,125	108,477	98,795	263,435
DEPARTMENT OF THE ARMY	291,994	31,085	1,017	24,656	25,790	127,343	40,379	15,554	26,170
DEPARTMENT OF THE NAVY	345,888	37,802	-	2,277	4,491	95,384	52,027	28,896	125,011
DEPARTMENT OF THE AIR FORCE	328,439	102,079	51,241	2,951	2,957	128,701	12,588	17,611	10,311
DEFENSE AGENCIES	370,351	45,654	23,507	391	7,942	150,697	3,483	36,734	101,943
DEPARTMENT OF EDUCATION	7,773	-	-	-	-	-	-	-	7,773
DEPARTMENT OF ENERGY	238,949	-	-	17,920	29,660	24,259	3,998	17,540	145,572
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	18,265	-	-	-	-	-	-	-	18,265
NATIONAL INSTITUTES OF HEALTH	18,265	-	-	-	-	-	-	-	18,265
DEPT OF HOUSING & URBAN DEVELOPMENT ..	1,109	-	-	-	-	-	-	-	1,109
DEPARTMENT OF THE INTERIOR, TOTAL	40,739	-	-	3,657	4,618	1,007	205	18,115	13,137
BUREAU OF MINES	30,652	-	-	-	300	-	-	18,015	12,337
BUREAU OF RECLAMATION	4,169	-	-	25	2,849	440	155	-	700
GEOLOGICAL SURVEY	3,901	-	-	3,232	152	517	-	-	-
MINERAL MANAGEMENT SERVICE	1,500	-	-	400	800	50	50	100	100
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	517	-	-	-	517	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	850	-	-	-	-	850	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	600	-	-	-	-	600	-	-	-
IMMIGRATION & NATURALIZATION SVC ...	250	-	-	-	-	250	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	60,541	3,480	1,624	490	35,200	3,926	14,101	750	970
COAST GUARD	2,100	-	-	-	2,000	-	100	-	-
FEDERAL AVIATION ADMINISTRATION	23,200	3,480	1,624	-	15,080	3,016	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,300	-	-	100	3,650	100	200	250	-
FEDERAL RAILROAD ADMINISTRATION	2,690	-	-	100	1,000	120	800	-	670
MARITIME ADMINISTRATION	4,800	-	-	-	-	500	3,500	500	300
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	9,036	-	-	-	-	-	9,036	-	-
OFFICE OF THE SECRETARY	50	-	-	-	50	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	1,100	-	-	290	155	190	465	-	-
URBAN MASS TRANSPORTATION ADMIN	13,265	-	-	-	13,265	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	104	-	-	-	-	-	104	-	-
BUREAU OF ENGRAVING AND PRINTING ...	104	-	-	-	-	-	104	-	-
OTHER AGENCIES									
AGENCY FOR INTERNAT'L DEVELOPMENT	17,218	-	-	-	3,350	-	-	-	13,868
ENVIRONMENTAL PROTECTION AGENCY	24,542	-	-	9,068	10,379	527	2,602	1,856	110
FEDERAL COMMUNICATIONS COMMISSION	920	-	-	-	-	920	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ...	2,963	-	-	12	2,224	112	294	321	-
GENERAL SERVICES ADMINISTRATION	250	-	-	-	-	-	-	-	250
NATIONAL AERONAUTICS & SPACE ADMIN	661,487	388,690	220,395	50	-	17,334	2,850	13,822	18,346
NATIONAL SCIENCE FOUNDATION	20,434	60	-	2,726	7,068	4,446	1,495	3,599	1,040
NUCLEAR REGULATORY COMMISSION	199,740	-	-	-	-	-	-	-	199,740
TENNESSEE VALLEY AUTHORITY	4,230	-	-	-	-	3,247	-	-	983
US ARMS CONTROL & DISARMAMENT AGENCY ..	308	15	30	-	-	18	-	-	245
VETERANS ADMINISTRATION	3,974	-	-	-	-	-	-	-	3,974

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-69. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES,
BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHE- MATICS	COMPUTER SCIENCES	MATHE- MATICS AND COM- PUTER SCIENCES NEC	TOTAL	ANTHRO- POLOGY	ECONOM- ICS	POLITI- CAL SCIENCE	SOCI- OLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	185,016	37,269	103,490	44,257	265,741	1,501	118,152	3,173	33,266	109,649
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	14,768	14,768	-	-	67,510	-	63,081	278	3,556	595
AGRICULTURAL COOPERATIVE SERVICE ...	-	-	-	-	1,704	-	1,704	-	-	-
AGRICULTURAL RESEARCH SERVICE	829	829	-	-	941	-	554	-	4	383
COOPERATIVE STATE RESEARCH SERVICE ..	-	-	-	-	28,393	-	26,890	-	1,503	-
ECONOMIC RESEARCH SERVICE	5,973	5,973	-	-	29,370	-	28,416	141	601	212
FOREST SERVICE	2,966	2,966	-	-	7,102	-	5,517	137	1,448	-
HUMAN NUTRITION INFORMATION SERVICE ..	300	300	-	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	4,700	4,700	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	12,443	5,820	4,749	1,874	3,624	-	3,262	184	178	-
BUREAU OF THE CENSUS	999	834	165	-	392	-	214	-	178	-
ECONOMIC DEVELOPMENT ADMINISTRATION ..	-	-	-	-	1,600	-	1,600	-	-	-
NATIONAL BUREAU OF STANDARDS	8,336	4,468	1,994	1,874	1,088	-	1,088	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	1,348	518	830	-	514	-	360	154	-	-
NAT'L TELECOMM & INFORMATION ADMIN ..	1,760	-	1,760	-	30	-	-	30	-	-
DEPARTMENT OF DEFENSE, TOTAL	113,858	7,853	64,613	41,392	1,129	-	703	-	376	50
DEPARTMENT OF THE ARMY	7,059	1,735	5,204	120	1,129	-	703	-	376	50
DEPARTMENT OF THE NAVY	18,312	-	10,924	7,388	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	26,495	3,457	20,145	2,893	-	-	-	-	-	-
DEFENSE AGENCIES	61,992	2,661	28,340	30,991	-	-	-	-	-	-
DEPARTMENT OF EDUCATION	-	-	-	-	21,310	-	-	-	830	20,480
DEPARTMENT OF ENERGY	3,545	-	3,000	545	3,405	-	-	-	-	3,405
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	3,971	3,871	100	-	105,302	528	10,575	481	20,166	73,552
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	339	239	100	-	18,602	528	200	481	14,120	3,273
HEALTH CARE FINANCING ADMIN	-	-	-	-	29,083	-	-	-	-	29,083
HUMAN DEVELOPMENT SERVICES	-	-	-	-	8,299	-	-	-	-	8,299
NATIONAL INSTITUTES OF HEALTH	3,632	3,632	-	-	12,474	-	-	-	-	12,474
OFFICE OF ASST'T SECY FOR HEALTH ...	-	-	-	-	8,220	-	1,215	-	2,121	4,884
OFFICE OF THE SECRETARY	-	-	-	-	13,085	-	9,160	-	3,925	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	15,539	-	-	-	-	15,539
DEPT OF HOUSING & URBAN DEVELOPMENT ..	-	-	-	-	9,176	-	9,073	-	-	103
DEPARTMENT OF THE INTERIOR, TOTAL	1,933	159	1,619	155	1,822	883	392	-	86	471
BUREAU OF RECLAMATION	-	-	-	-	54	-	18	-	36	-
GEOLOGICAL SURVEY	1,556	159	1,397	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	3	-	3	-	1,404	803	-	-	50	471
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	219	-	219	-	24	-	24	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY ..	155	-	-	155	350	-	350	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	10,199	-	300	300	2,687	6,912
FEDERAL PRISON SYSTEM	-	-	-	-	698	-	-	-	270	448
OFF OF JUSTICE ASSIST, RSCH, & STAT ..	-	-	-	-	9,109	-	300	300	2,437	6,072
OFFICE OF LEGAL POLICY	-	-	-	-	392	-	-	-	-	392
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	10,647	-	10,647	-	-	-
BUREAU OF LABOR STATISTICS	-	-	-	-	291	-	291	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION ..	-	-	-	-	1,400	-	1,400	-	-	-
EMPLOYMENT AND TRAINING ADMIN	-	-	-	-	2,146	-	2,146	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	715	-	715	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN ..	-	-	-	-	4,900	-	4,900	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	900	-	900	-	-	-
PENSION BENEFIT GUARANTEE CORPORATION	-	-	-	-	295	-	295	-	-	-

CONTINUED ON NEXT PAGE

TABLE C-69. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES,
BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHE- MATICS	COMPUTER SCIENCES	MATHE- MATICS AND COM- PUTER SCIENCES NEC	TOTAL	ANTHRO- PCLOGY	ECONOM- ICS	POLITI- CAL SCIENCE	SOCI- DLOGY	SOCIAL SCIENCES NEC
DEPARTMENT OF STATE, TOTAL	-	-	-	-	1,406	-	120	-	-	1,286
DEPARTMENTAL FUNDS	-	-	-	-	1,406	-	120	-	-	1,286
DEPARTMENT OF TRANSPORTATION, TOTAL ..	912	-	712	200	10,961	-	6,519	-	4,442	-
COAST GUARD	200	-	-	200	200	-	-	-	200	-
FEDERAL HIGHWAY ADMINISTRATION	300	-	300	-	103	-	103	-	-	-
FEDERAL RAILROAD ADMINISTRATION	12	-	12	-	4	-	4	-	-	-
MARITIME ADMINISTRATION	400	-	400	-	200	-	200	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	-	-	-	-	8,982	-	5,306	-	3,676	-
OFFICE OF THE SECRETARY	-	-	-	-	200	-	200	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	-	-	-	-	1,002	-	706	-	296	-
URBAN MASS TRANSPORTATION ADMIN	-	-	-	-	270	-	-	-	270	-
DEPARTMENT OF THE TREASURY, TOTAL	2,023	960	1,063	-	1,057	-	1,057	-	-	-
INTERNAL REVENUE SERVICE	2,023	960	1,063	-	1,057	-	1,057	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	-	-	-	-	2,033	-	1,017	1,016	-	-
AGENCY FOR INTERNAT'L DEVELOPMENT	1,426	-	1,426	-	482	-	121	-	127	234
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	300	-	300	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	3,339	423	2,916	-	476	-	476	-	-	-
FEDERAL COMMUNICATIONS COMMISSION	-	-	-	-	376	-	97	-	-	279
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	594	471	123	-	1,312	-	705	171	232	204
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	2,701	-	2,701	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	179	-	179	-	-	-
INTERNATIONAL TRADE COMMISSION	-	-	-	-	3,764	-	3,764	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	23,469	2,455	20,923	91	13	-	-	-	-	13
NATIONAL SCIENCE FOUNDATION	2,693	489	2,204	-	6,276	90	3,063	472	586	2,065
US ARMS CONTROL & DISARMAMENT AGENCY ..	42	-	42	-	271	-	-	271	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-70. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES,
BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHE- MATICS	COMPUTER SCIENCES	MATHE- MATICS AND COM- PUTER SCIENCES NEC	TOTAL	ANTHRD- POLOGY	ECONOM- ICS	POLITI- CAL SCIENCE	SOCI- OLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	203,649	38,075	121,178	44,396	300,333	1,364	124,629	3,155	37,440	133,745
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	15,376	15,376	-	-	68,933	-	64,507	267	3,533	626
AGRICULTURAL COOPERATIVE SERVICE	-	-	-	-	1,716	-	1,716	-	-	-
AGRICULTURAL RESEARCH SERVICE	900	900	-	-	1,022	-	602	-	4	416
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	30,527	-	28,911	-	1,616	-
ECONOMIC RESEARCH SERVICE	5,944	5,944	-	-	29,124	-	28,195	140	579	210
FOREST SERVICE	2,732	2,732	-	-	6,544	-	5,083	127	1,334	-
HUMAN NUTRITION INFORMATION SERVICE	500	500	-	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	5,300	5,300	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	12,388	5,705	5,002	1,681	3,038	-	2,715	130	193	-
BUREAU OF THE CENSUS	1,082	903	179	-	425	-	232	-	193	-
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	-	2,000	-	2,000	-	-	-
NATIONAL BUREAU OF STANDARDS	8,075	4,158	2,236	1,681	180	-	180	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	1,915	644	1,271	-	417	-	303	114	-	-
NAT'L TELECOMM & INFORMATION ADMIN	1,316	-	1,316	-	16	-	-	16	-	-
DEPARTMENT OF DEFENSE, TOTAL	118,260	6,266	74,571	37,423	2,596	-	806	-	426	1,364
DEPARTMENT OF THE ARMY	6,748	882	5,716	150	1,232	-	806	-	426	-
DEPARTMENT OF THE NAVY	20,026	-	12,260	7,766	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	27,464	3,700	20,668	3,096	-	-	-	-	-	-
DEFENSE AGENCIES	64,022	1,684	35,927	26,411	1,364	-	-	-	-	1,364
DEPARTMENT OF EDUCATION	-	-	-	-	24,254	-	-	-	851	23,403
DEPARTMENT OF ENERGY	9,012	-	4,000	5,012	7,747	-	-	-	-	7,747
DEPT OF HLTH & HUMAN SERVICES, TOTAL	4,305	4,205	100	-	119,097	561	11,410	500	22,354	84,272
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	347	247	100	-	21,576	561	207	500	15,923	4,385
HEALTH CARE FINANCING ADMIN	-	-	-	-	30,000	-	-	-	-	30,000
HUMAN DEVELOPMENT SERVICES	-	-	-	-	6,928	-	-	-	-	6,928
NATIONAL INSTITUTES OF HEALTH	3,958	3,958	-	-	13,553	-	-	-	-	13,553
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	8,532	-	1,250	-	2,166	5,116
OFFICE OF THE SECRETARY	-	-	-	-	14,218	-	9,953	-	4,265	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	24,290	-	-	-	-	24,290
DEPT OF HOUSING & URBAN DEVELOPMENT	-	-	-	-	10,623	-	10,504	-	-	119
DEPARTMENT OF THE INTERIOR, TOTAL	2,188	172	1,836	180	1,588	716	295	-	322	255
BUREAU OF RECLAMATION	-	-	-	-	35	-	15	-	20	-
GEOLOGICAL SURVEY	1,945	172	1,773	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	3	-	3	-	1,226	716	-	-	302	208
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	60	-	60	-	70	-	70	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	180	-	-	180	257	-	210	-	-	47
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	16,265	-	400	400	3,624	11,841
FEDERAL PRISON SYSTEM	-	-	-	-	850	-	-	-	250	600
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	14,823	-	400	400	3,374	10,649
OFFICE OF LEGAL POLICY	-	-	-	-	592	-	-	-	-	592
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	12,032	-	12,032	-	-	-
BUREAU OF LABOR STATISTICS	-	-	-	-	315	-	315	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	-	-	-	-	2,000	-	2,000	-	-	-
EMPLOYMENT AND TRAINING ADMIN	-	-	-	-	1,997	-	1,997	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	751	-	751	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	-	-	-	-	5,700	-	5,700	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	1,000	-	1,000	-	-	-
PENSION BENEFIT GUARANTEE CORPORATION	-	-	-	-	269	-	269	-	-	-

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TABLE C-70. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHE- MATICS	COMPUTER SCIENCES	MATHE- MATICS AND COM- PUTER SCIENCES NEC	TOTAL	ANTHRD- POLOGY	ECONOM- ICS	POLITI- CAL SCIENCE	SOCI- OLOGY	SOCIAL SCIENCES NEC
DEPARTMENT OF ST/TE, TOTAL	-	-	-	-	1,456	-	100	-	-	1,356
DEPARTMENTAL FUNDS	-	-	-	-	1,456	-	100	-	-	1,356
DEPARTMENT OF TRANSPORTATION, TOTAL ..	841	23	818	-	12,201	-	7,160	-	4,991	50
COAST GUARD	-	-	-	-	150	-	-	-	100	50
FEDERAL HIGHWAY ADMINISTRATION	323	23	300	-	100	-	100	-	-	-
FEDERAL RAILROAD ADMINISTRATION	18	-	18	-	7	-	7	-	-	-
MARITIME ADMINISTRATION	500	-	500	-	400	-	400	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	-	-	-	-	9,611	-	5,680	-	3,931	-
OFFICE OF THE SECRETARY	-	-	-	-	213	-	213	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	-	-	-	-	1,220	-	760	-	460	-
URBAN MASS TRANSPORTATION ADMIN ..	-	-	-	-	500	-	-	-	500	-
DEPARTMENT OF THE TREASURY, TOTAL	3,081	1,511	1,570	-	1,871	-	1,871	-	-	-
INTERNAL REVENUE SERVICE	3,081	1,511	1,570	-	1,871	-	1,871	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	-	-	-	-	1,956	-	978	978	-	-
AGENCY FOR INTERNAT'L DEVELOPMENT	490	-	490	-	845	-	170	-	400	275
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	300	-	300	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	3,431	159	3,272	-	362	-	362	-	-	-
FEDERAL COMMUNICATIONS COMMISSION ..	-	-	-	-	264	-	67	-	-	197
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	221	162	79	-	847	-	455	110	150	132
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	2,988	-	2,988	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	261	-	261	-	-	-
GENERAL SERVICES ADMINISTRATION	250	-	250	-	-	-	-	-	-	-
INTERNATIONAL TRADE COMMISSION	-	-	-	-	3,989	-	3,989	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	31,196	3,841	27,255	100	-	-	-	-	-	-
NATIONAL SCIENCE FOUNDATION	2,610	675	1,935	-	6,516	87	3,249	476	596	2,108
US ARMS CONTROL & DISARMAMENT AGENCY ..	-	-	-	-	304	-	10	294	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-71. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1984 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHE- MATICS	COMPUTER SCIENCES	MATHE- MATICS AND COM- PUTER SCIENCES NEC	TOTAL	ANTHRO- POLOGY	ECONOM- ICS	POLITI- CAL SCIENCE	SOCI- OLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	241,598	45,764	145,851	49,983	295,916	1,700	129,863	3,290	37,953	123,110
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	15,692	15,692	-	-	70,144	-	65,813	282	3,406	643
AGRICULTURAL COOPERATIVE SERVICE ...	-	-	-	-	1,360	-	1,360	-	-	-
AGRICULTURAL RESEARCH SERVICE	867	867	-	-	963	-	559	-	4	400
COOPERATIVE STATE RESEARCH SERVICE ..	-	-	-	-	28,043	-	26,559	-	1,484	-
ECONOMIC RESEARCH SERVICE	6,868	6,868	-	-	33,654	-	32,580	162	669	243
FOREST SERVICE	2,557	2,557	-	-	6,124	-	4,755	120	1,249	-
STATISTICAL REPORTING SERVICE	5,400	5,400	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	11,742	5,640	4,360	1,742	941	-	637	106	198	-
BUREAU OF THE CENSUS	1,111	927	184	-	436	-	238	-	198	-
NATIONAL BUREAU OF STANDARDS	7,696	4,168	1,786	1,742	187	-	187	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	1,619	545	1,074	-	318	-	212	106	-	-
NAT'L TELECOMM & INFORMATION ADMIN ..	1,316	-	1,316	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	144,487	12,766	85,372	46,349	2,244	-	1,155	-	567	522
DEPARTMENT OF THE ARMY	8,818	1,525	7,118	175	1,722	-	1,155	-	567	-
DEPARTMENT OF THE NAVY	24,074	-	15,714	8,360	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	28,877	4,079	21,385	3,413	-	-	-	-	-	-
DEFENSE AGENCIES	82,718	7,162	41,155	34,401	522	-	-	-	-	522
DEPARTMENT OF EDUCATION	-	-	-	-	21,182	-	-	-	851	20,331
DEPARTMENT OF ENRGY	6,792	-	5,000	1,792	2,769	-	-	-	-	2,769
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	4,388	4,288	100	-	121,102	614	8,920	547	22,651	88,370
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	370	270	100	-	23,236	614	227	547	17,173	4,675
HEALTH CARE FINANCING ADMIN	-	-	-	-	30,000	-	-	-	-	30,000
HUMAN DEVELOPMENT SERVICES	-	-	-	-	5,020	-	-	-	-	5,020
NATIONAL INSTITUTES OF HEALTH	4,018	4,018	-	-	13,760	-	-	-	-	13,760
OFFICE OF ASST'T SECY FOR HEALTH ...	-	-	-	-	9,313	-	1,343	-	2,328	5,642
OFFICE OF THE SECRETARY	-	-	-	-	10,500	-	7,350	-	3,150	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	29,273	-	-	-	-	29,273
DEPT OF HOUSING & URBAN DEVELOPMENT ..	-	-	-	-	8,980	-	8,879	-	-	101
DEPARTMENT OF THE INTERIOR, TOTAL	2,185	172	2,013	-	1,666	1,000	166	-	500	-
BUREAU OF RECLAMATION	-	-	-	-	36	-	36	-	-	-
GEOLOGICAL SURVEY	2,185	172	2,013	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	1,500	1,000	-	-	500	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	-	-	-	-	130	-	130	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	10,041	-	500	200	3,250	6,091
FEDERAL PRISON SYSTEM	-	-	-	-	600	-	-	-	250	350
OFF OF JUSTICE ASSIST, RSCH, & STAT ..	-	-	-	-	8,916	-	500	200	3,000	5,216
OFFICE OF LEGAL POLICY	-	-	-	-	525	-	-	-	-	525
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	12,856	-	12,856	-	-	-
BUREAU OF LABOR STATISTICS	-	-	-	-	377	-	377	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION ..	-	-	-	-	1,250	-	1,250	-	-	-
EMPLOYMENT AND TRAINING ADMIN	-	-	-	-	2,261	-	2,261	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	1,786	-	1,786	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN ..	-	-	-	-	5,700	-	5,700	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	1,200	-	1,200	-	-	-
PENSION BENEFIT GUARANTEE CORPORATION	-	-	-	-	281	-	282	-	-	-

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TABLE C-71. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES,
BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1984 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHE- MATICS	COMPUTER SCIENCES	MATHE- MATICS AND COM- PUTER SCIENCES NEC	TOTAL	ANTHRO- POLOGY	ECONOM- ICS	POLITI- CAL SCIENCE	SOCI- OLOGY	SOCIAL SCIENCES NEC
DEPARTMENT OF STATE, TOTAL	-	-	-	-	1,368	-	100	-	-	1,268
DEPARTMENTAL FUNDS	-	-	-	-	1,368	-	100	-	-	1,268
DEPARTMENT OF TRANSPORTATION, TOTAL ..	760	100	660	-	11,814	-	6,806	-	5,008	-
COAST GUARD	-	-	-	-	550	-	-	-	550	-
FEDERAL HIGHWAY ADMINISTRATION	450	100	350	-	100	-	100	-	-	-
FEDERAL RAILROAD ADMINISTRATION	10	-	10	-	-	-	-	-	-	-
MARITIME ADMINISTRATION	300	-	300	-	200	-	200	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	-	-	-	-	9,443	-	5,580	-	3,863	-
OFFICE OF THE SECRETARY	-	-	-	-	421	-	421	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	-	-	-	-	700	-	505	-	195	-
URBAN MASS TRANSPORTATION ADMIN ..	-	-	-	-	400	-	-	-	400	-
DEPARTMENT OF THE TREASURY, TOTAL	3,210	1,400	1,810	-	1,763	-	1,543	-	-	220
INTERNAL REVENUE SERVICE	3,210	1,400	1,810	-	1,763	-	1,543	-	-	220
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	-	-	-	-	2,036	-	1,028	1,018	-	-
AGENCY FOR INTERNAT'L DEVELOPMENT	600	-	600	-	817	-	225	-	400	192
ENVIRONMENTAL PROTECTION AGENCY	2,019	112	2,907	-	8,284	-	8,284	-	-	-
FEDERAL COMMUNICATIONS COMMISSION	-	-	-	-	82	-	20	-	-	62
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	783	503	280	-	2,996	-	1,611	390	530	465
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	3,103	-	3,103	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	253	-	253	-	-	-
GENERAL SERVICES ADMINISTRATION	950	-	950	-	-	-	-	-	-	-
INTERNATIONAL TRADE COMMISSION	-	-	-	-	4,385	-	4,385	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	44,186	4,401	39,685	100	-	-	-	-	-	-
NATIONAL SCIENCE FOUNDATION	2,804	690	2,114	-	6,804	86	3,579	471	592	2,076
US ARMS CONTROL & DISARMAMENT AGENCY ..	-	-	-	-	286	-	10	276	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-72. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1982
(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1	EXTRAMURAL							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	23,410,404	4,946,825	15,035,649	1,019,078	560,035	919,970	348,117	416,419	58,359	105,952
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	30,811	28,488	-	-	2,072	-	43	-	66	142
AGRICULTURAL MARKETING SERVICE	237	237	-	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	25,794	23,566	-	-	2,072	-	43	-	66	47
FOREST SERVICE	4,486	4,486	-	-	-	-	-	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	205	110	-	-	-	-	-	-	-	95
OFFICE OF TRANSPORTATION	89	89	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	60,223	43,738	6,688	-	5,680	150	2,408	-	1,559	-
BUREAU OF THE CENSUS	1,917	1,917	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	8,000	430	-	-	3,832	-	2,179	-	1,559	-
NATIONAL BUREAU OF STANDARDS	14,890	11,783	2,691	-	37	150	229	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	33,510	27,702	3,997	-	1,811	-	-	-	-	-
NAT'L TELECOMM & INFORMATION ADMIN	1,200	1,200	-	-	-	-	-	-	-	-
PATENT AND TRADEMARK OFFICE	706	706	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	17,669,753	4,079,413	12,573,639	65,768	250,930	152,784	121,065	366,728	64	59,362
DEPARTMENT OF THE ARMY	3,121,266	1,042,762	2,003,598	2,764	6,997	36,145	15,332	8,766	64	4,838
DEPARTMENT OF THE NAVY	5,066,356	1,311,567	3,471,828	63,004	91,448	26,141	50,494	1,762	-	50,112
DEPARTMENT OF THE AIR FORCE	8,723,958	1,406,091	6,695,631	-	150,119	90,498	51,060	326,147	-	4,412
DEFENSE AGENCIES	717,136	285,472	400,111	-	1,907	-	4,179	25,467	-	-
DIRECTOR OF TEST & EVALUATION, DEFENSE	41,037	33,521	2,471	-	459	-	-	4,586	-	-
DEPARTMENT OF EDUCATION	57,514	9,089	2,850	-	24,275	-	19,827	-	1,391	82
DEPARTMENT OF ENERGY	3,012,070	107,849	1,210,438	944,092	41,270	631,340	19,379	49,688	-	8,014
DEPT OF HLTH & HUMAN SERVICES, TOTAL	335,161	64,805	23,891	9,014	150,812	4,265	70,002	-	10,242	2,130
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	2,063	1,550	-	-	-	-	513	-	-	-
HEALTH RESOURCES AND SERVICES ADMINISTRATION	3,420	102	-	-	686	-	1,082	-	1,550	-
HUMAN DEVELOPMENT SERVICES	18,465	1,822	4,483	-	4,076	-	5,795	-	2,289	-
NATIONAL INSTITUTES OF HEALTH	308,696	60,186	18,847	9,014	145,325	4,265	62,528	-	6,401	2,130
OFFICE OF ASST'T SECY FOR HEALTH	2,249	1,143	295	-	725	-	84	-	2	-
OFFICE OF THE SECRETARY	268	2	266	-	-	-	-	-	-	-
DEPT OF HOUSING & URBAN DEVELOPMENT	18,545	8,118	5,341	-	969	-	3,533	-	584	-
DEPARTMENT OF THE INTERIOR, TOTAL	29,614	21,481	6,161	-	1,464	-	458	-	50	-
BUREAU OF LAND MANAGEMENT	2,900	2,700	-	-	200	-	-	-	-	-
BUREAU OF MINES	13,613	8,014	4,775	-	316	-	458	-	50	-
BUREAU OF RECLAMATION	1,098	305	-	-	793	-	-	-	-	-
GEOLOGICAL SURVEY	500	10	490	-	-	-	-	-	-	-
OFFICE OF HATER RSCH & TECHNOLOGY	1,250	199	896	-	155	-	-	-	-	-
US FISH & WILDLIFE SERVICE	10,253	10,253	-	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	10,387	2,163	5,883	-	-	-	1,498	-	843	-
DRUG ENFORCEMENT ADMINISTRATION	1,900	400	1,500	-	-	-	-	-	-	-
FEDERAL BUREAU OF INVESTIGATION	2,748	275	2,473	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	730	425	-	-	-	-	-	-	305	-
IMMIGRATION & NATURALIZATION SVC	398	50	348	-	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	4,603	1,012	1,562	-	-	-	1,491	-	538	-
OFFICE OF LEGAL POLICY	8	1	-	-	-	-	7	-	-	-
DEPARTMENT OF LABOR, TOTAL	8,255	351	903	-	4,538	234	2,169	-	60	-
EMPLOYMENT AND TRAINING ADMIN	7,418	317	100	-	4,538	234	2,169	-	60	-
PENSION BENEFIT GUARANTEE CORPORATION	837	34	803	-	-	-	-	-	-	-

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TABLE C-72. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1982
(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA- MURAL 1/	EXTRAMURAL							FOREIGN
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS- TRIAL FIRMS	UNIVER- SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON- PROFIT INSTI- TUTIONS	FFRDCS ADMIN BY NON- PROFIT INSTI- TUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF TRANSPORTATION, TOTAL ..	243,398	56,874	123,300	-	11,750	3,963	14,795	-	32,716	-
COAST GUARD	18,338	9,958	8,215	-	28	137	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	87,300	20,952	52,801	-	257	3,595	9,695	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	35,000	873	8,530	-	7,000	231	836	-	17,530	-
FEDERAL RAILROAD ADMINISTRATION	15,100	6,342	8,398	-	-	-	360	-	-	-
MARITIME ADMINISTRATION	4,510	600	3,310	-	-	-	400	-	200	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	34,100	4,666	20,643	-	2,438	-	2,205	-	4,148	-
OFFICE OF THE SECRETARY	3,044	2,668	376	-	-	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	4,000	2,711	900	-	389	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	42,006	8,104	20,127	-	1,638	-	1,299	-	10,838	-
DEPARTMENT OF THE TREASURY, TOTAL	5,178	1,402	3,736	40	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING ...	1,982	1,179	803	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	119	119	-	-	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	3,077	104	2,933	40	-	-	-	-	-	-
OTHER AGENCIES										
AGENCY FOR INTERNAT'L DEVELOPMENT	72,007	6,291	3,037	-	23,597	-	3,400	-	-	35,682
APPALACHIAN REGIONAL COMMISSION	100	50	-	-	-	-	-	-	50	-
CONSUMER PRODUCT SAFETY COMMISSION ...	143	143	-	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	91,710	35,576	27,424	-	9,956	-	9,226	-	9,528	-
GENERAL SERVICES ADMINISTRATION	472	472	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	4,852	4,422	430	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,670,719	413,710	1,041,518	-	29,778	127,234	56,730	3	1,206	540
NATIONAL SCIENCE FOUNDATION	2,162	5	-	-	1,628	-	529	-	-	-
TENNESSEE VALLEY AUTHORITY	72,300	49,245	-	-	-	-	23,055	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	631	57	410	164	-	-	-	-	-	-
UNITED STATES INFORMATION AGENCY	99	99	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	14,300	12,984	-	-	1,316	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-73. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1983 (ESTIMATED)
(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	24,555,744	5,651,304	15,389,292	1,009,960	588,569	923,619	372,288	484,297	65,469	70,946
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	30,403	27,397	-	-	2,261	-	43	-	66	636
AGRICULTURAL MARKETING SERVICE	293	293	-	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	25,653	23,235	-	-	2,261	-	43	-	66	48
FOREST SERVICE	3,675	3,675	-	-	-	-	-	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	704	116	-	-	-	-	-	-	-	588
OFFICE OF TRANSPORTATION	78	78	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	58,490	40,961	8,237	-	4,472	-	3,220	-	1,600	-
BUREAU OF THE CENSUS	2,155	2,155	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	8,000	400	-	-	3,000	-	3,000	-	1,600	-
NATIONAL BUREAU OF STANDARDS	13,529	11,309	2,000	-	-	-	220	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	33,106	25,397	6,237	-	1,472	-	-	-	-	-
NAT'L TELECOMM & INFORMATION ADMIN	1,000	1,000	-	-	-	-	-	-	-	-
PATENT AND TRADEMARK OFFICE	700	700	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	19,963,598	4,940,959	13,817,925	77,378	288,205	178,899	172,656	448,998	65	38,513
DEPARTMENT OF THE ARMY	3,312,066	1,233,860	1,993,088	4,287	7,372	45,203	16,241	10,175	65	1,775
DEPARTMENT OF THE NAVY	5,221,781	1,466,187	3,467,478	73,091	91,812	30,104	58,592	3,819	-	30,698
DEPARTMENT OF THE AIR FORCE	10,280,700	1,691,011	7,805,889	-	185,579	103,592	92,612	395,977	-	6,040
DEFENSE AGENCIES	1,085,204	491,412	549,970	-	3,042	-	5,211	35,569	-	-
DIRECTOR OF TEST & EVALUATION, DEFENSE	63,847	58,489	1,500	-	400	-	-	3,458	-	-
DEPARTMENT OF EDUCATION	67,272	7,905	2,800	-	34,098	-	20,011	-	2,458	-
DEPARTMENT OF ENERGY	2,636,820	88,061	947,945	921,441	14,540	608,793	24,592	29,194	-	2,254
DEPT OF HLTH & HUMAN SERVICES, TOTAL	353,962	69,966	24,582	10,314	160,628	4,534	72,563	-	9,004	2,371
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	1,691	1,176	-	-	-	-	515	-	-	0
HEALTH RESOURCES AND SERVICES ADMINISTRATION	1,500	1,500	-	-	-	-	-	-	-	-
HUMAN DEVELOPMENT SERVICES	17,633	1,621	3,842	-	3,770	-	6,197	-	2,203	-
NATIONAL INSTITUTES OF HEALTH	330,340	64,397	20,041	10,314	156,088	4,534	65,794	-	6,801	2,371
OFFICE OF ASST'T SECY FOR HEALTH	2,298	1,172	299	-	770	-	57	-	-	-
OFFICE OF THE SECRETARY	500	100	400	-	-	-	-	-	-	-
DEPT OF HOUSING & URBAN DEVELOPMENT	20,006	7,422	6,102	-	1,040	-	4,802	-	640	-
DEPARTMENT OF THE INTERIOR, TOTAL	28,383	23,983	3,600	-	800	-	-	-	-	-
BUREAU OF LAND MANAGEMENT	4,660	4,460	100	-	100	-	-	-	-	-
BUREAU OF MINES	10,833	8,233	2,600	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	866	256	-	-	610	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	1,200	210	900	-	90	-	-	-	-	-
US FISH & WILDLIFE SERVICE	10,824	10,824	-	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	11,535	2,402	4,989	827	550	-	1,592	-	1,175	-
DRUG ENFORCEMENT ADMINISTRATION	1,800	600	1,200	-	-	-	-	-	-	-
FEDERAL BUREAU OF INVESTIGATION	1,099	275	824	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	1,000	425	-	-	-	-	-	-	575	-
IMMIGRATION & NATURALIZATION SVC	877	50	-	827	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	6,551	1,048	2,761	-	550	-	1,592	-	600	-
OFFICE OF LEGAL POLICY	208	4	204	-	-	-	-	-	-	-
DEPARTMENT OF LABOR, TOTAL	2,148	196	1,014	-	470	-	418	-	50	-
EMPLOYMENT AND TRAINING ADMIN	1,395	159	298	-	470	-	418	-	50	-
PENSION BENEFIT GUARANTEE CORPORATION	753	37	716	-	-	-	-	-	-	-

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TABLE C-73. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL								
			UNITED STATES AND TERRITORIES								FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS		
DEPARTMENT OF TRANSPORTATION, TOTAL ..	315,859	63,829	164,285	-	14,622	4,193	16,604	6,100	46,226	-	
COAST GUARD	18,350	9,965	8,219	-	28	138	-	-	-	-	
FEDERAL AVIATION ADMINISTRATION	130,100	31,224	83,350	-	517	4,055	10,954	-	-	-	
FEDERAL HIGHWAY ADMINISTRATION	46,800	1,000	7,000	-	9,000	-	800	-	29,000	-	
FEDERAL RAILROAD ADMINISTRATION	24,400	6,100	11,468	-	-	-	732	6,100	-	-	
MARITIME ADMINISTRATION	8,600	600	7,000	-	-	-	200	-	800	-	
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	36,400	1,618	23,954	-	2,722	-	2,694	-	5,412	-	
OFFICE OF THE SECRETARY	5,323	2,396	2,927	-	-	-	-	-	-	-	
RESEARCH & SPECIAL PROGRAMS ADMIN ..	4,800	2,360	690	-	1,750	-	-	-	-	-	
URBAN MASS TRANSPORTATION ADMIN	41,086	8,566	19,677	-	605	-	1,224	-	11,014	-	
DEPARTMENT OF THE TREASURY, TOTAL	4,864	1,373	3,491	-	-	-	-	-	-	-	
BUREAU OF ENGRAVING AND PRINTING ...	2,079	1,148	931	-	-	-	-	-	-	-	
INTERNAL REVENUE SERVICE	120	120	-	-	-	-	-	-	-	-	
OFFICE OF PROTECTIVE RESEARCH	45	5	40	-	-	-	-	-	-	-	
UNITED STATES CUSTOMS SERVICE	2,620	100	2,520	-	-	-	-	-	-	-	
OTHER AGENCIES											
AGENCY FOR INTERNAT'L DEVELOPMENT	57,899	2,355	3,187	-	25,330	-	400	-	-	26,627	
CONSUMER PRODUCT SAFETY COMMISSION ...	191	191	-	-	-	-	-	-	-	-	
ENVIRONMENTAL PROTECTION AGENCY	66,900	28,992	20,560	-	7,612	-	6,877	-	2,859	-	
GENERAL SERVICES ADMINISTRATION	253	253	-	-	-	-	-	-	-	-	
LIBRARY OF CONGRESS	4,831	4,456	375	-	-	-	-	-	-	-	
NATIONAL AERONAUTICS & SPACE ADMIN ...	854,415	283,642	379,485	-	33,200	127,200	29,012	5	1,326	545	
TENNESSEE VALLEY AUTHORITY	59,400	39,902	-	-	-	-	19,498	-	-	-	
UNITED STATES INFORMATION AGENCY	2,215	1,500	715	-	-	-	-	-	-	-	
VETERANS ADMINISTRATION	16,300	15,559	-	-	741	-	-	-	-	-	

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-74. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1984 (ESTIMATED)
(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL						STATE AND LOCAL GOVTS	FOREIGN
			INDUSTRIAL FIRMS	FFRDGS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDGS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDGS ADMIN BY NON-PROFIT INSTI-TUTIONS		
TOTAL, ALL AGENCIES	30,833,759	6,333,360	20,530,874	1,112,438	603,659	1,005,035	549,634	587,061	49,385	62,313
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	29,460	26,487	-	-	2,324	-	43	-	66	540
AGRICULTURAL RESEARCH SERVICE	25,752	23,271	-	-	2,324	-	43	-	66	48
FOREST SERVICE	3,022	3,022	-	-	-	-	-	-	-	-
OFF OF INTERMAT'L COOPERATION & DEV	603	111	-	-	-	-	-	-	-	492
OFFICE OF TRANSPORTATION	83	83	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	34,568	28,569	5,502	-	497	-	-	-	-	-
BUREAU OF THE CENSUS	2,213	2,213	-	-	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	7,149	6,649	500	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	23,506	18,007	5,002	-	497	-	-	-	-	-
NAT'L TELECOMM & INFORMATION ADMIN ..	1,000	1,000	-	-	-	-	-	-	-	-
PATENT AND TRADEMARK OFFICE	700	700	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	26,163,348	5,711,425	18,880,109	89,641	318,476	211,795	358,071	563,626	89	30,116
DEPARTMENT OF THE ARMY	4,158,200	1,571,736	2,464,209	8,971	9,046	67,430	24,416	10,646	89	1,657
DEPARTMENT OF THE NAVY	7,180,335	1,579,104	5,142,740	80,670	107,894	33,470	202,439	8,140	-	25,878
DEPARTMENT OF THE AIR FORCE	13,131,358	1,602,377	10,593,298	-	196,907	110,895	124,748	500,550	-	2,581
DEFENSE AGENCIES	1,637,117	908,249	678,162	-	4,227	-	6,468	40,011	-	-
DIRECTOR OF TEST & EVALUATION, DEFENSE	56,338	49,959	1,700	-	400	-	-	4,279	-	-
DEPARTMENT OF EDUCATION	55,062	7,365	2,550	-	25,619	-	18,219	-	1,309	-
DEPARTMENT OF ENERGY	2,686,232	77,600	881,697	1,012,587	10,623	656,473	27,190	19,905	-	157
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	341,099	68,166	21,518	10,210	157,038	4,910	68,496	-	8,288	2,473
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	1,925	1,425	-	-	-	-	500	-	-	-
HUMAN DEVELOPMENT SERVICES	5,990	1,036	504	-	-	-	3,042	-	1,408	-
NATIONAL INSTITUTES OF HEALTH	330,378	64,429	20,314	10,210	156,268	4,910	64,894	-	6,880	2,473
OFFICE OF ASST'T SECY FOR HEALTH ...	2,306	1,176	300	-	770	-	60	-	-	-
OFFICE OF THE SECRETARY	500	100	400	-	-	-	-	-	-	-
DEPT OF HOUSING & URBAN DEVELOPMENT ..	17,083	6,338	5,210	-	888	-	4,100	-	547	-
DEPARTMENT OF THE INTERIOR, TOTAL	17,342	16,142	1,000	-	200	-	-	-	-	-
BUREAU OF LAND MANAGEMENT	4,900	4,500	200	-	200	-	-	-	-	-
BUREAU OF MINES	2,552	1,752	800	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	310	310	-	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	9,560	9,580	-	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	9,281	2,052	6,018	-	246	-	100	-	865	-
DRUG ENFORCEMENT ADMINISTRATION	1,500	400	1,100	-	-	-	-	-	-	-
FEDERAL BUREAU OF INVESTIGATION	2,599	275	2,324	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	750	425	-	-	-	-	-	-	325	-
IMMIGRATION & NATURALIZATION SVC ...	250	50	200	-	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT ..	4,007	900	2,267	-	200	-	100	-	540	-
OFFICE OF LEGAL POLICY	175	2	127	-	46	-	-	-	-	-
DEPARTMENT OF LABOR, TOTAL	2,325	197	1,028	-	529	-	521	-	50	-
EMPLOYMENT AND TRAINING ADMIN	1,605	162	343	-	529	-	521	-	50	-
PENSION BENEFIT GUARANTEE CORPORATION	720	35	685	-	-	-	-	-	-	-

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TABLE C-74. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1984 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF TRANSPORTATION, TOTAL ..	438,770	63,389	300,267	-	12,934	4,657	17,153	3,525	36,845	-
COAST GUARD	18,150	9,858	1,129	-	27	136	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	280,700	35,127	228,118	-	720	4,521	12,214	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	42,300	1,000	9,500	-	8,100	-	1,000	-	22,700	-
FEDERAL RAILROAD ADMINISTRATION	14,100	3,525	6,627	-	-	-	423	3,525	-	-
MARITIME ADMINISTRATION	6,500	400	5,700	-	-	-	-	-	400	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	34,600	1,538	22,769	-	2,587	-	2,561	-	5,145	-
OFFICE OF THE SECRETARY	6,785	3,053	3,732	-	-	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	3,800	2,200	600	-	1,000	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	31,835	6,688	15,092	-	500	-	955	-	8,600	-
DEPARTMENT OF THE TREASURY, TOTAL	4,781	1,389	3,392	-	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	2,102	1,208	894	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	89	89	-	-	-	-	-	-	-	-
OFFICE OF PROTECTIVE RESEARCH	40	5	35	-	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	2,550	27	2,463	-	-	-	-	-	-	-
OTHER AGENCIES										
AGENCY FOR INTERNAT'L DEVELOPMENT	65,857	2,400	3,348	-	31,227	-	400	-	-	23,482
CONSUMER PRODUCT SAFETY COMMISSION ...	364	364	-	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	59,100	22,546	24,074	-	6,808	-	5,672	-	-	-
GENERAL SERVICES ADMINISTRATION	626	626	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	4,820	4,445	375	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	815,620	234,409	388,840	-	35,600	127,200	27,695	5	1,326	545
TENNESSEE VALLEY AUTHORITY	65,100	43,126	-	-	-	-	21,974	-	-	-
UNITED STATES INFORMATION AGENCY	6,421	475	5,946	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	16,500	15,850	-	-	650	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-75. FEDERAL FUNDS FOR R&D PLANT, BY AGENCY: FISCAL YEARS 1982, 1983, AND 1984
(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	1982	ESTIMATES		1982	ESTIMATES	
		1983	1984		1983	1984
TOTAL, ALL AGENCIES	1,389,774	1,369,294	1,566,562	1,376,056	1,426,043	1,481,933
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	21,469	34,816	26,514	21,254	33,705	22,514
AGRICULTURAL RESEARCH SERVICE	21,084	24,366	16,092	18,530	30,746	16,092
COOPERATIVE STATE RESEARCH SERVICE	-	10,000	10,000	-	2,000	6,000
FOREST SERVICE	385	450	422	2,724	959	422
DEPARTMENT OF COMMERCE, TOTAL	1,039	10,979	2,345	1,013	10,077	2,409
NATIONAL BUREAU OF STANDARDS	1,039	10,699	2,345	1,013	9,797	2,409
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	-	280	-	-	280	-
DEPARTMENT OF DEFENSE, TOTAL	290,500	323,000	438,200	231,700	288,900	349,100
DEPARTMENT OF THE ARMY	24,700	17,000	32,100	13,500	20,900	20,900
DEPARTMENT OF THE NAVY	155,900	154,200	248,100	125,300	148,300	178,200
DEPARTMENT OF THE AIR FORCE	84,700	136,700	133,000	67,700	104,600	125,000
DEFENSE AGENCIES	25,200	15,100	25,000	25,200	15,100	25,000
DEPARTMENT OF ENERGY	914,028	794,262	872,648	943,324	906,936	881,318
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	24,684	69,196	25,325	36,770	28,863	34,244
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	3,260	100	1,515	370	2,863	1,844
FOOD & DRUG ADMINISTRATION	2,000	37,000	1,800	1,000	6,000	12,500
NATIONAL INSTITUTES OF HEALTH	19,424	32,096	22,010	35,400	20,000	19,900
DEPARTMENT OF THE INTERIOR, TOTAL	1,289	1,564	1,200	1,335	1,734	1,585
BUREAU OF MINES	89	244	-	185	244	-
OFFICE OF WATER RESEARCH & TECHNOLOGY	940	320	-	890	440	-
UNITED STATES FISH AND WILDLIFE SERVICE	260	1,000	1,200	260	1,050	1,585
DEPARTMENT OF TRANSPORTATION, TOTAL	11,900	14,300	23,500	13,000	10,900	18,700
FEDERAL AVIATION ADMINISTRATION	5,100	13,800	23,000	4,300	7,200	18,200
FEDERAL RAILROAD ADMINISTRATION	6,300	-	-	8,200	3,200	-
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	500	500	500	500	500	500
DEPARTMENT OF THE TREASURY, TOTAL	60	60	70	60	60	70
UNITED STATES CUSTOMS SERVICE	60	60	70	60	60	70
OTHER AGENCIES						
AGENCY FOR INTERNATIONAL DEVELOPMENT	6,009	6,331	6,715	10,339	15,685	16,055
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	113,700	97,500	150,500	112,200	108,100	138,500
NATIONAL SCIENCE FOUNDATION	1,500	2,450	8,000	1,500	2,450	8,000
SMITHSONIAN INSTITUTION	496	1,536	245	421	1,303	438
TENNESSEE VALLEY AUTHORITY	300	200	200	200	300	200
VETERANS ADMINISTRATION	2,800	13,100	11,100	2,940	17,030	8,800

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-76. FEDERAL OBLIGATIONS FOR R&D PLANT, BY AGENCY AND PERFORMER OF THE RESEARCH AND DEVELOPMENT THE PLANT SUPPORTS:
FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	FEDERAL INTRA- MURAL	EXTRAMURAL UNITED STATES AND TERRITORIES							FOREIGN
			INDUS- TRIAL FIRMS	FFRDCS ADMIN BY INDUS- TRIAL FIRMS	UNIVER- SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON- PROFIT INSTI- TUTIONS	FFRDCS ADMIN BY NON- PROFIT INSTI- TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	1,389,774	426,029	110,436	362,190	30,262	441,660	6,578	9,446	-	3,175
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	21,469	21,469	-	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	21,084	21,084	-	-	-	-	-	-	-	-
FOREST SERVICE	385	385	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	1,039	261	778	-	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	1,039	261	778	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	290,500	266,202	1,297	-	5,731	17,250	20	-	-	-
DEPARTMENT OF THE ARMY	24,700	24,700	-	-	-	-	-	-	-	-
DEPARTMENT OF THE NAVY	155,900	155,900	-	-	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	84,700	84,700	-	-	-	-	-	-	-	-
DEFENSE AGENCIES	25,200	902	1,297	-	5,731	17,250	20	-	-	-
DEPARTMENT OF ENERGY	914,028	5,812	103,020	358,950	19,126	414,309	3,365	9,446	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	24,684	13,219	2,000	3,240	5,405	-	820	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	3,260	3,260	-	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	2,000	-	2,000	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	19,424	9,959	-	3,240	5,405	-	820	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	1,289	349	940	-	-	-	-	-	-	-
BUREAU OF MINES	89	89	-	-	-	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY ..	940	-	940	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	260	260	-	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	11,900	11,900	-	-	-	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	5,100	5,100	-	-	-	-	-	-	-	-
FEDERAL RAILROAD ADMINISTRATION	6,300	6,300	-	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	500	500	-	-	-	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	60	60	-	-	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	60	60	-	-	-	-	-	-	-	-
OTHER AGENCIES										
AGENCY FOR INTERNAT'L DEVELOPMENT	6,009	12	901	-	-	-	1,923	-	-	3,173
NATIONAL AERONAUTICS & SPACE ADMIN ...	113,700	103,149	-	-	-	10,101	450	-	-	-
NATIONAL SCIENCE FOUNDATION	1,500	-	1,500	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	496	496	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	300	300	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	2,800	2,800	-	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-77. FEDERAL OBLIGATIONS FOR R&D PLANT, BY AGENCY AND PERFORMER OF THE RESEARCH AND DEVELOPMENT THE PLANT SUPPORTS:
FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	FEDERAL INTRA- MURAL	EXTRAMURAL UNITED STATES AND TERRITORIES							FOREIGN
			INDUS- TRIAL FIRMS	FFRDCS ADMIN BY INDUS- TRIAL FIRMS	UNIVER- SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON- PROFIT INSTI- TUTIONS	FFRDCS ADMIN BY NON- PROFIT INSTI- TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	1,369,294	499,280	151,884	330,861	32,512	341,298	4,444	5,673	-	3,342
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	34,816	25,216	-	-	9,600	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	24,366	24,366	-	-	-	-	-	-	-	-
COOPERATIVE STATE RESEARCH SERVICE ..	10,000	400	-	-	9,600	-	-	-	-	-
FOREST SERVICE	450	450	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	10,979	1,193	9,506	-	280	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	10,699	1,193	9,506	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	280	-	-	-	280	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	323,000	310,037	963	-	6,492	5,500	8	-	-	-
DEPARTMENT OF THE ARMY	17,000	17,000	-	-	-	-	-	-	-	-
DEPARTMENT OF THE NAVY	154,200	154,200	-	-	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	136,700	136,700	-	-	-	-	-	-	-	-
DEFENSE AGENCIES	15,100	2,137	963	-	6,492	5,500	8	-	-	-
DEPARTMENT OF ENERGY	794,262	10,200	100,695	329,361	14,640	331,283	2,410	5,673	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	69,196	29,196	37,000	1,500	1,500	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	100	100	-	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	37,000	-	37,000	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	32,096	29,096	-	1,500	1,500	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	1,564	1,244	320	-	-	-	-	-	-	-
BUREAU OF MINES	244	244	-	-	-	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY ..	320	-	320	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	1,000	1,000	-	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	14,300	14,300	-	-	-	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	13,800	13,800	-	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	500	500	-	-	-	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	60	60	-	-	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	60	60	-	-	-	-	-	-	-	-
OTHER AGENCIES										
AGENCY FOR INTERNAT'L DEVELOPMENT	6,331	13	950	-	-	-	2,026	-	-	3,342
NATIONAL AERONAUTICS & SPACE ADMIN ...	97,500	92,985	-	-	-	4,515	-	-	-	-
NATIONAL SCIENCE FOUNDATION	2,450	-	2,450	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	1,536	1,536	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	200	200	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	13,100	13,100	-	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-78. FEDERAL OBLIGATIONS FOR R&D PLANT, BY AGENCY AND PERFORMER OF THE RESEARCH AND DEVELOPMENT THE PLANT SUPPORTS:
FISCAL YEAR 1984 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	FEDERAL INTRA- MURAL	EXTRAMURAL							FOREIGN
			UNITED STATES AND TERRITORIES						STATE AND LOCAL GOVTS	
			INDUS- TRIAL FIRMS	FFRDCS ADMIN BY INDUS- TRIAL FIRMS	UNIVER- SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON- PROFIT INSTI- TUTIONS	FFRDCS ADMIN BY NON- PROFIT INSTI- TUTIONS		
TOTAL, ALL AGENCIES	1,566,562	644,091	70,599	411,250	39,978	390,278	4,665	2,155	-	3,546
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	26,514	16,914	-	-	9,600	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	16,092	16,092	-	-	-	-	-	-	-	-
COOPERATIVE STATE RESEARCH SERVICE ..	10,000	400	-	-	9,600	-	-	-	-	-
FOREST SERVICE	422	422	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	2,345	160	2,185	-	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	2,345	160	2,185	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	438,200	419,947	6,258	-	6,275	5,500	220	-	-	-
DEPARTMENT OF THE ARMY	32,100	32,100	-	-	-	-	-	-	-	-
DEPARTMENT OF THE NAVY	248,100	248,100	-	-	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	133,000	133,000	-	-	-	-	-	-	-	-
DEFENSE AGENCIES	25,000	6,747	6,258	-	6,275	5,500	220	-	-	-
DEPARTMENT OF ENERGY	872,648	7,712	51,349	410,140	23,103	375,893	2,296	2,155	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	25,325	21,415	1,800	1,110	1,000	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	1,515	1,515	-	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	1,800	-	1,800	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	22,010	19,900	-	1,110	1,000	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	1,200	1,200	-	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	1,200	1,200	-	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	23,500	23,500	-	-	-	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	23,000	23,000	-	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	500	500	-	-	-	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	70	70	-	-	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	70	70	-	-	-	-	-	-	-	-
OTHER AGENCIES										
AGENCY FOR INTERNAT'L DEVELOPMENT	6,715	13	1,007	-	-	-	2,149	-	-	3,546
NATIONAL AERONAUTICS & SPACE ADMIN ...	150,500	141,615	-	-	-	8,885	-	-	-	-
NATIONAL SCIENCE FOUNDATION	8,000	-	8,000	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	245	245	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	200	200	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	11,100	11,100	-	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-79. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY
DETAILED FIELD OF SCIENCE: FISCAL YEARS 1982, 1983, AND 1984

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1982	ESTIMATES	
		1983	1984
TOTAL, ALL FIELDS	3,795,700	4,175,614	4,471,043
LIFE SCIENCES, TOTAL	2,204,998	2,422,084	2,506,353
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	1,149,436	1,259,384	1,315,892
ENVIRONMENTAL BIOLOGY	40,920	44,083	51,338
AGRICULTURAL	147,046	162,375	156,036
MEDICAL	793,851	876,497	898,898
LIFE SCIENCES, NEC	73,745	79,745	84,189
PSYCHOLOGY, TOTAL	83,501	91,600	98,281
BIOLOGICAL ASPECTS	25,920	28,457	32,405
SOCIAL ASPECTS	26,944	29,692	32,530
PSYCHOLOGICAL SCIENCES, NEC	30,637	33,451	33,346
PHYSICAL SCIENCES, TOTAL	559,144	604,168	680,071
ASTRONOMY	52,595	51,189	61,865
CHEMISTRY	189,588	204,826	220,518
PHYSICS	305,977	338,530	385,960
PHYSICAL SCIENCES, NEC	10,984	9,623	11,728
ENVIRONMENTAL SCIENCES, TOTAL	274,684	294,798	332,345
ATMOSPHERIC	79,713	92,583	101,296
GEOLOGICAL	69,022	75,188	95,143
OCEANOGRAPHY	112,368	113,045	121,338
ENVIRONMENTAL SCIENCES, NEC	13,581	13,982	14,568
MATHEMATICS & COMPUTER SCIENCES, TOTAL	139,651	166,107	204,225
MATHEMATICS	64,278	72,508	84,867
COMPUTER SCIENCES	67,125	77,278	95,590
MATHEMATICS & COMPUTER SCIENCES, NEC	8,248	16,401	23,768
ENGINEERING, TOTAL	361,508	389,268	446,721
AERONAUTICAL	38,495	39,341	43,016
ASTRONAUTICAL	9,582	15,849	16,252
CHEMICAL	19,419	21,497	25,852
CIVIL	27,138	28,433	33,477
ELECTRICAL	88,611	88,597	108,375
MECHANICAL	40,486	42,905	48,776
METALLURGY & MATERIALS	75,342	80,596	94,572
ENGINEERING, NEC	62,435	72,050	76,401
SOCIAL SCIENCES, TOTAL	113,505	120,936	118,891
ANTHROPOLOGY	5,846	6,220	7,078
ECONOMICS	52,647	55,994	52,586
POLITICAL SCIENCE	2,688	2,901	2,819
SOCIOLOGY	22,088	23,754	23,862
SOCIAL SCIENCES, NEC	30,236	32,067	32,546
OTHER SCIENCES, NEC	58,709	86,573	84,156

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS
TABLE REPRESENT APPROXIMATELY 95 PERCENT OF TOTAL FEDERAL RESEARCH
OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1982, 1983, AND 1984.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-80. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY AGENCY AND FIELD OF SCIENCE:
FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY- CHOLOGY	PHYSICAL SCIENCES	ENVIRON- MENTAL SCIENCES	MATHE- MATICS AND COM- PUTER SCIENCES	ENGI- NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	3,795,700	2,704,998	83,501	559,144	274,684	139,651	361,508	113,505	58,709
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	252,898	180,954	-	13,576	1,862	1,107	9,062	46,337	-
AGRICULTURAL COOPERATIVE SERVICE ...	254	-	-	-	-	-	-	254	-
AGRICULTURAL MARKETING SERVICE	65	65	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	30,928	24,212	-	3,884	216	111	2,409	96	-
COOPERATIVE STATE RESEARCH SERVICE ..	208,448	147,732	-	9,692	1,215	-	6,653	43,156	-
ECONOMIC RESEARCH SERVICE	1,494	-	-	-	-	227	-	1,267	-
FOREST SERVICE	9,773	7,425	-	-	431	353	-	1,564	-
HUMAN NUTRITION INFORMATION SERVICE ..	1,520	1,520	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	416	-	-	-	-	416	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	412,685	41,882	14,295	78,066	62,851	68,423	146,331	29	808
DEPARTMENT OF THE ARMY	83,051	23,497	2,138	15,849	4,726	9,379	27,252	29	181
DEPARTMENT OF THE NAVY	159,851	9,755	6,996	38,718	47,412	19,780	37,190	-	-
DEPARTMENT OF THE AIR FORCE	118,550	7,961	5,161	21,355	8,811	8,676	66,487	-	99
DEFENSE AGENCIES	51,233	669	-	2,144	1,902	30,588	15,402	-	528
DEPARTMENT OF ENERGY	235,813	39,252	-	159,616	2,958	4,556	27,883	434	1,114
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	2,025,192	1,799,046	61,270	47,170	-	4,079	28,328	43,334	41,875
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	113,829	57,637	32,620	510	-	410	-	18,121	4,531
CENTERS FOR DISEASE CONTROL	7,147	7,147	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	4,302	4,302	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	5,340	-	-	-	-	-	-	5,340	-
HEALTH RESOURCES AND SERVICES ADMINISTRATION	5,157	-	-	-	-	-	-	-	5,157
HUMAN DEVELOPMENT SERVICES	1,726	-	-	-	-	-	-	1,726	-
NATIONAL INSTITUTES OF HEALTH	1,880,706	1,729,960	28,650	46,660	-	3,669	28,328	11,252	32,187
OFFICE OF ASST'T SECY FOR HEALTH ...	4,457	-	-	-	-	-	-	4,457	-
OFFICE OF THE SECRETARY	1,246	-	-	-	-	-	-	1,246	-
SOCIAL SECURITY ADMINISTRATION	1,192	-	-	-	-	-	-	1,192	-
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN ...	155,852	12,867	1,203	53,060	44,193	3,983	38,514	63	1,969
NATIONAL SCIENCE FOUNDATION	713,350	130,997	6,733	207,656	162,820	57,503	111,390	23,308	12,943

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 94 PERCENT
OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1982.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-81. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PSYCHOLOGY AND LIFE SCIENCES,
BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	83,501	25,920	26,944	30,637	2,204,998	1,149,436	40,920	147,046	793,851	73,745
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	-	-	-	-	180,954	24,320	1,775	145,771	9,088	-
AGRICULTURAL MARKETING SERVICE	-	-	-	-	65	-	-	65	-	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	24,212	1,639	973	21,296	304	-
COOPERATIVE STATE RESEARCH SERVICE ..	-	-	-	-	147,732	16,058	-	122,890	8,784	-
FOREST SERVICE	-	-	-	-	7,425	6,623	802	-	-	-
HUMAN NUTRITION INFORMATION SERVICE ..	-	-	-	-	1,520	-	-	1,520	-	-
DEPARTMENT OF DEFENSE, TOTAL	14,295	-	13,900	395	41,882	11,649	2,543	86	24,351	3,253
DEPARTMENT OF THE ARMY	2,138	-	2,138	-	23,497	1,968	255	86	21,142	46
DEPARTMENT OF THE NAVY	6,996	-	6,601	395	9,755	6,612	-	-	3,143	-
DEPARTMENT OF THE AIR FORCE	5,161	-	5,161	-	7,961	2,462	2,226	-	64	3,207
DEFENSE AGENCIES	-	-	-	-	669	607	62	-	-	-
DEPARTMENT OF ENERGY	-	-	-	-	39,252	28,404	-	243	6,320	4,285
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	61,270	20,807	11,171	29,292	1,799,046	983,966	193	-	751,934	62,953
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	32,620	20,807	11,171	642	57,637	34,951	-	-	19,309	3,377
CENTERS FOR DISEASE CONTROL	-	-	-	-	7,147	-	-	-	7,147	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	4,302	2,581	-	-	1,721	-
NATIONAL INSTITUTES OF HEALTH	28,650	-	-	28,650	1,729,960	946,434	193	-	723,757	59,576
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,203	226	210	767	12,867	6,220	457	927	2,158	3,105
NATIONAL SCIENCE FOUNDATION	6,733	4,887	1,663	183	130,997	94,877	35,952	19	-	149

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 94 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1982.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-82. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PHYSICAL AND ENVIRONMENTAL SCIENCES,
BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	559,144	52,595	189,588	305,977	10,984	274,684	79,713	69,022	112,368	13,581
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	13,576	-	13,386	190	-	1,862	1,610	252	-	-
AGRICULTURAL RESEARCH SERVICE	3,884	-	3,694	190	-	216	157	59	-	-
COOPERATIVE STATE RESEARCH SERVICE ..	9,692	-	9,692	-	-	1,215	1,215	-	-	-
FOREST SERVICE	-	-	-	-	-	431	238	193	-	-
DEPARTMENT OF DEFENSE, TOTAL	78,066	4,022	28,063	44,811	1,170	62,851	12,529	4,367	39,238	6,717
DEPARTMENT OF THE ARMY	15,849	-	9,305	5,972	572	4,726	2,825	1,523	-	378
DEPARTMENT OF THE NAVY	38,718	1,408	10,639	26,601	70	47,412	2,497	-	38,931	5,984
DEPARTMENT OF THE AIR FORCE	21,355	2,614	8,119	10,415	207	8,811	7,109	1,702	-	-
DEFENSE AGENCIES	2,144	-	-	1,823	321	1,902	98	1,742	307	355
DEPARTMENT OF ENERGY	159,616	3,414	18,866	132,893	4,443	2,958	246	2,548	-	164
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	47,170	-	45,397	1,773	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	510	-	510	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	46,660	-	44,887	1,773	-	-	-	-	-	-
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN ...	53,060	25,798	5,658	16,395	5,209	44,193	24,536	10,652	2,759	6,246
NATIONAL SCIENCE FOUNDATION	207,656	19,361	78,218	109,915	162	162,820	40,792	51,203	70,371	454

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 94 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1982.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-83. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO- NAUTICAL	ASTRO- NAUTICAL	CHEMICAL	CIVIL	ELEC- TRICAL	MECHAN- ICAL	METAL- LURGY AND MATERIALS	ENGI- NEERING NEC
TOTAL, ALL AGENCIES	361,508	38,495	9,582	13,419	27,138	88,611	40,486	75,342	62,435
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	9,062	-	-	237	154	25	84	-	8,562
AGRICULTURAL RESEARCH SERVICE	2,409	-	-	237	154	25	84	-	1,909
COOPERATIVE STATE RESEARCH SERVICE	6,653	-	-	-	-	-	-	-	6,653
DEPARTMENT OF DEFENSE, TOTAL	146,331	22,777	7,508	1,934	2,749	55,433	18,699	34,036	3,195
DEPARTMENT OF THE ARMY	27,252	3,734	100	170	1,427	12,166	3,015	5,652	968
DEPARTMENT OF THE NAVY	37,190	498	-	1,492	95	14,186	10,874	9,915	130
DEPARTMENT OF THE AIR FORCE	66,487	18,528	6,577	254	1,092	23,778	4,810	10,652	796
DEFENSE AGENCIES	15,402	17	831	18	135	5,303	-	7,817	1,281
DEPARTMENT OF ENERGY	27,883	-	234	173	1,548	1,559	2,314	11,910	10,145
DEPT OF HLTH & HUMAN SERVICES, TOTAL	28,328	-	-	-	-	-	-	-	28,328
NATIONAL INSTITUTES OF HEALTH	28,328	-	-	-	-	-	-	-	28,328
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN	38,514	15,419	1,670	393	320	4,426	5,183	6,320	4,783
NATIONAL SCIENCE FOUNDATION	111,390	299	170	16,682	22,367	27,168	14,206	23,076	7,422

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 94 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1982.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-84. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHE- MATICS	COMPUTER SCIENCES	MATHE- MATICS AND COM- PUTER SCIENCES NEC	TOTAL	ANTHRO- POLOGY	ECONOM- ICS	POLITI- CAL SCIENCE	SOCI- OLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	139,651	64,278	67,125	8,248	113,505	5,846	52,647	2,688	22,088	30,236
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	1,107	1,107	-	-	46,337	-	43,963	4	2,331	39
AGRICULTURAL COOPERATIVE SERVICE	-	-	-	-	254	-	254	-	-	-
AGRICULTURAL RESEARCH SERVICE	111	111	-	-	96	-	64	-	1	31
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	43,156	-	40,872	-	2,284	-
ECONOMIC RESEARCH SERVICE	227	227	-	-	1,267	-	1,209	4	46	8
FOREST SERVICE	353	353	-	-	1,564	-	1,564	-	-	-
STATISTICAL REPORTING SERVICE	416	416	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	68,423	24,362	36,698	7,363	29	-	13	-	6	10
DEPARTMENT OF THE ARMY	9,379	5,967	3,370	42	29	-	13	-	6	10
DEPARTMENT OF THE NAVY	19,780	9,901	9,729	150	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	8,676	5,632	2,771	273	-	-	-	-	-	-
DEFENSE AGENCIES	30,588	2,862	20,828	6,898	-	-	-	-	-	-
DEPARTMENT OF ENERGY	4,556	3,163	1,276	117	434	-	-	-	-	434
DEPT OF HLTH & HUMAN SERVICES, TOTAL	4,079	4,079	-	-	43,334	706	2,084	633	17,196	22,715
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	410	410	-	-	18,121	706	314	633	14,145	2,323
HEALTH CARE FINANCING ADMIN	-	-	-	-	5,340	-	-	-	-	5,340
HUMAN DEVELOPMENT SERVICES	-	-	-	-	1,726	-	-	-	-	1,726
NATIONAL INSTITUTES OF HEALTH	3,669	3,669	-	-	11,252	-	-	-	-	11,252
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	4,457	-	897	-	2,678	882
OFFICE OF THE SECRETARY	-	-	-	-	1,246	-	873	-	373	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	1,192	-	-	-	-	1,192
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN	3,983	937	2,278	768	63	50	-	-	-	13
NATIONAL SCIENCE FOUNDATION	57,503	30,630	26,873	-	23,308	5,090	6,587	2,051	2,555	7,025

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 94 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1982.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-85. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES,
BY DETAILED FIELD OF SCIENCE: FISCAL YEARS 1982, 1983, AND 1984

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1982	ESTIMATES	
		1983	1984
TOTAL, ALL FIELDS	2,693,269	2,988,142	3,272,546
LIFE SCIENCES, TOTAL	1,483,665	1,649,324	1,728,045
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	897,748	992,205	1,043,281
ENVIRONMENTAL BIOLOGY	33,756	37,012	44,322
AGRICULTURAL	64,623	72,112	73,248
MEDICAL	441,860	497,572	513,244
LIFE SCIENCES, NEC	45,678	50,423	53,950
PSYCHOLOGY, TOTAL	47,765	52,824	55,984
BIOLOGICAL ASPECTS	14,734	15,804	17,218
SOCIAL ASPECTS	17,053	19,273	21,293
PSYCHOLOGICAL SCIENCES, NEC	15,978	17,747	17,473
PHYSICAL SCIENCES, TOTAL	455,265	495,975	579,058
ASTRONOMY	46,188	46,825	58,672
CHEMISTRY	165,267	176,808	197,587
PHYSICS	1,564	267,493	314,820
PHYSICAL SCIENCES, NEC	6	4,849	7,979
ENVIRONMENTAL SCIENCES, TOTAL	255,951	273,155	300,837
ATMOSPHERIC	69,043	82,429	88,870
GEOLOGICAL	66,245	70,191	86,249
OCEANOGRAPHY	111,492	111,264	116,124
ENVIRONMENTAL SCIENCES, NEC	9,171	9,271	9,594
MATHEMATICS & COMPUTER SCIENCES, TOTAL	118,842	139,838	171,439
MATHEMATICS	60,864	68,877	81,393
COMPUTER SCIENCES	53,244	60,252	75,307
MATHEMATICS & COMPUTER SCIENCES, NEC	4,734	10,709	14,739
ENGINEERING, TOTAL	259,013	277,886	333,393
AERONAUTICAL	25,203	25,747	28,954
ASTRONAUTICAL	3,532	7,405	10,079
CHEMICAL	16,802	18,582	22,841
CIVIL	18,966	21,260	26,669
ELECTRICAL	61,064	59,856	75,793
MECHANICAL	32,106	33,831	40,171
METALLURGY & MATERIALS	69,648	74,320	87,372
ENGINEERING, NEC	31,692	36,885	41,514
SOCIAL SCIENCES, TOTAL	46,624	50,263	53,862
ANTHROPOLOGY	5,367	5,710	6,511
ECONOMICS	21,240	22,566	22,499
POLITICAL SCIENCE	1,973	2,170	2,049
SOCIOLOGY	8,707	9,154	10,417
SOCIAL SCIENCES, NEC	9,337	10,663	12,386
OTHER SCIENCES, NEC	26,144	48,877	49,928

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS
TABLE REPRESENT APPROXIMATELY 99 PERCENT OF TOTAL FEDERAL BASIC RESEARCH
OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1982, 1983, AND 1984.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-86. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY AGENCY AND FIELD OF SCIENCE:
FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	2,693,269	1,483,665	47,765	455,265	255,951	118,842	259,013	46,624	26,144
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	107,576	80,224	-	6,140	748	369	3,302	16,793	-
AGRICULTURAL RESEARCH SERVICE	16,434	12,862	-	2,554	108	45	841	23	-
COOPERATIVE STATE RESEARCH SERVICE	86,164	63,699	-	3,586	450	-	2,461	15,968	-
ECONOMIC RESEARCH SERVICE	149	-	-	-	-	-	-	149	-
FOREST SERVICE	4,829	3,663	-	-	190	323	-	653	-
DEPARTMENT OF DEFENSE, TOTAL	305,365	25,304	11,268	61,460	56,725	53,180	97,418	10	-
DEPARTMENT OF THE ARMY	61,164	12,342	1,514	14,416	3,452	8,853	20,577	10	-
DEPARTMENT OF THE NAVY	142,291	8,042	6,326	30,136	46,060	18,397	33,330	-	-
DEPARTMENT OF THE AIR FORCE	71,461	4,561	3,428	16,741	5,826	6,251	34,654	-	-
DEFENSE AGENCIES	30,449	359	-	167	1,387	19,679	8,857	-	-
DEPARTMENT OF ENERGY	135,198	13,221	-	99,217	2,548	4,439	15,773	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,344,941	1,233,238	28,927	38,213	-	2,402	17,897	10,389	13,875
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	46,699	23,632	13,984	205	-	171	-	5,851	2,856
NATIONAL INSTITUTES OF HEALTH	1,296,428	1,209,606	14,943	38,008	-	2,231	17,897	2,724	11,019
OFFICE OF ASST'T SECY FOR HEALTH	1,814	-	-	-	-	-	-	1,814	-
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN ...	125,876	10,781	1,051	47,763	36,210	2,496	26,668	50	857
NATIONAL SCIENCE FOUNDATION	674,313	120,897	6,519	202,472	159,720	55,956	97,955	19,382	11,412

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 99 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1982.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-87. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIOLOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHOLOGICAL SCIENCES NEC	TOTAL	BIOLOGICAL	ENVIRONMENTAL BIOLOGY	AGRICULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	47,765	14,734	17,053	15,978	1,483,665	897,748	33,756	64,623	441,860	45,678
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	-	-	-	-	80,224	12,350	764	63,735	3,375	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	12,862	1,295	454	10,988	125	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	63,699	7,702	-	52,747	3,250	-
FOREST SERVICE	-	-	-	-	3,663	3,353	310	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	11,268	-	11,268	-	25,304	11,234	2,267	-	11,803	-
DEPARTMENT OF THE ARMY	1,514	-	1,514	-	12,342	1,878	106	-	10,358	-
DEPARTMENT OF THE NAVY	6,326	-	6,326	-	8,042	6,597	-	-	1,445	-
DEPARTMENT OF THE AIR FORCE	3,428	-	3,428	-	4,561	2,462	2,099	-	-	-
DEFENSE AGENCIES	-	-	-	-	359	297	62	-	-	-
DEPARTMENT OF ENERGY	-	-	-	-	13,221	13,021	-	-	-	200
DEPT OF HLTH & HUMAN SERVICES, TOTAL	23,927	9,687	4,009	15,231	1,233,238	764,625	116	-	425,280	43,217
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	13,984	9,687	4,009	288	23,632	14,781	-	-	7,233	1,618
NATIONAL INSTITUTES OF HEALTH	14,943	-	-	14,943	1,209,606	749,844	116	-	418,047	41,599
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,051	226	210	615	10,781	5,809	437	887	1,402	2,246
NATIONAL SCIENCE FOUNDATION	6,519	4,821	1,566	132	120,897	90,709	30,172	1	-	15

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 99 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1982.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-88. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	455,265	46,188	165,267	238,564	5,246	255,951	69,043	66,245	111,492	9,171
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	6,140	-	6,047	93	-	748	668	80	-	-
AGRICULTURAL RESEARCH SERVICE	2,554	-	2,461	93	-	108	84	24	-	-
COOPERATIVE STATE RESEARCH SERVICE	3,586	-	3,586	-	-	450	450	-	-	-
FOREST SERVICE	-	-	-	-	-	190	134	56	-	-
DEPARTMENT OF DEFENSE, TOTAL	61,460	4,022	25,939	31,337	162	56,725	8,265	3,628	38,794	6,038
DEPARTMENT OF THE ARMY	14,416	-	8,601	5,653	162	3,452	2,181	1,217	-	54
DEPARTMENT OF THE NAVY	30,136	1,408	10,509	18,219	-	46,060	1,560	-	38,516	5,984
DEPARTMENT OF THE AIR FORCE	16,741	2,614	6,829	7,298	-	5,826	4,524	1,302	-	-
DEFENSE AGENCIES	167	-	-	167	-	1,387	-	1,109	278	-
DEPARTMENT OF ENERGY	99,217	-	15,297	83,420	500	2,548	-	2,548	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	38,213	-	36,842	1,371	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	205	-	205	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	38,008	-	36,637	1,371	-	-	-	-	-	-
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN	47,763	22,817	5,233	15,211	4,502	36,210	20,160	10,399	2,519	3,132
NATIONAL SCIENCE FOUNDATION	202,472	19,349	75,909	107,132	82	159,720	39,950	49,590	70,179	1

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 99 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1982.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-89. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING							
	TOTAL	AERONAUTICAL	ASTRONAUTICAL	CHEMICAL	CIVIL	ELECTRICAL	MECHANICAL	METALLURGY AND MATERIALS
TOTAL, ALL AGENCIES	259,013	25,203	3,532	16,802	18,966	61,064	32,106	69,648
DEPARTMENTS								
DEPARTMENT OF AGRICULTURE, TOTAL	3,302	-	-	107	46	11	28	-
AGRICULTURAL RESEARCH SERVICE	841	-	-	107	46	11	28	-
COOPERATIVE STATE RESEARCH SERVICE	2,461	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	97,418	13,278	2,099	1,469	966	34,740	14,278	30,528
DEPARTMENT OF THE ARMY	20,577	3,392	-	64	100	9,571	2,120	5,270
DEPARTMENT OF THE NAVY	33,330	376	-	1,387	-	13,584	8,266	9,717
DEPARTMENT OF THE AIR FORCE	34,654	9,510	2,099	-	866	9,029	3,892	9,258
DEFENSE AGENCIES	8,857	-	-	18	-	2,556	-	6,283
DEPARTMENT OF ENERGY	15,773	-	-	-	-	-	2,291	11,900
DEPT OF HLTH & HUMAN SERVICES, TOTAL	17,897	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	17,897	-	-	-	-	-	-	-
OTHER AGENCIES								
NATIONAL AERONAUTICS & SPACE ADMIN	26,668	11,638	1,264	348	320	2,466	2,496	5,853
NATIONAL SCIENCE FOUNDATION	97,955	287	169	14,878	17,634	23,847	13,013	21,367

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 99 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1982.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-90. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHE- MATICS	COMPUTER SCIENCES	MATHE- MATICS AND COM- PUTER SCIENCES NEC	TOTAL	ANTHRO- POLOGY	ECONOM- ICS	POLITI- CAL SCIENCE	SOCI- OLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES ...	118,842	60,864	53,244	4,734	46,624	5,367	21,240	1,973	8,707	9,337
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	369	369	-	-	16,793	-	15,924	-	868	1
AGRICULTURAL RESEARCH SERVICE	46	46	-	-	23	-	21	-	1	1
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	15,968	-	15,123	-	845	-
ECONOMIC RESEARCH SERVICE	-	-	-	-	149	-	127	-	22	-
FOREST SERVICE	323	323	-	-	653	-	653	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	53,180	23,844	25,279	4,057	10	-	-	-	-	10
DEPARTMENT OF THE ARMY	8,853	5,936	2,907	10	10	-	-	-	-	10
DEPARTMENT OF THE NAVY	18,397	9,901	8,346	150	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	6,251	5,340	911	-	-	-	-	-	-	-
DEFENSE AGENCIES	19,679	2,667	13,115	3,897	-	-	-	-	-	-
DEPARTMENT OF ENERGY	4,439	3,163	1,276	-	-	-	-	-	-	-
DEPT OF H.LTH & HUMAN SERVICES, TOTAL ..	2,402	2,402	-	-	10,389	303	496	265	5,754	3,571
A COHOL, DRUG ABUSE & MENTAL HLTH ADMIN	171	171	-	-	5,851	303	131	265	4,664	488
NATIONAL INSTITUTES OF HEALTH	2,231	2,231	-	-	2,724	-	-	-	-	2,724
OFFICE OF ASST'T SECY FOR HEALTH ...	-	-	-	-	1,814	-	365	-	1,090	359
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN ...	2,496	813	1,006	677	50	50	-	-	-	-
NATIONAL SCIENCE FOUNDATION	55,956	30,273	25,683	-	19,382	5,014	4,820	1,708	2,035	5,755

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 99 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1982.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-91. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES,
BY DETAILED FIELD OF SCIENCE: FISCAL YEARS 1982, 1983, AND 1984

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1982	ESTIMATES	
		1983	1984
TOTAL, ALL FIELDS	1,102,431	1,187,472	1,198,497
LIFE SCIENCES, TOTAL	721,333	772,760	778,308
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	251,688	267,179	272,611
ENVIRONMENTAL BIOLOGY	7,164	7,071	7,016
AGRICULTURAL	82,423	90,263	82,788
MEDICAL	351,991	378,925	385,654
LIFE SCIENCES, NEC	28,067	29,322	30,239
PSYCHOLOGY, TOTAL	35,736	38,776	42,297
BIOLOGICAL ASPECTS	11,186	12,653	15,187
SOCIAL ASPECTS	9,891	10,419	11,237
PSYCHOLOGICAL SCIENCES, NEC	14,659	15,704	15,873
PHYSICAL SCIENCES, TOTAL	103,879	108,193	101,013
ASTRONOMY	6,407	4,364	3,193
CHEMISTRY	24,321	28,018	22,931
PHYSICS	67,413	71,037	71,140
PHYSICAL SCIENCES, NEC	5,738	4,774	3,749
ENVIRONMENTAL SCIENCES, TOTAL	18,733	21,643	31,508
ATMOSPHERIC	10,670	10,154	12,426
GEOLOGICAL	2,777	4,997	8,894
OCEANOGRAPHY	876	1,781	5,214
ENVIRONMENTAL SCIENCES, NEC	4,410	4,711	4,974
MATHEMATICS & COMPUTER SCIENCES, TOTAL	20,809	26,349	32,786
MATHEMATICS	3,414	3,631	3,474
COMPUTER SCIENCES	13,881	17,026	20,283
MATHEMATICS & COMPUTER SCIENCES, NEC	3,514	5,692	9,029
ENGINEERING, TOTAL	102,495	111,382	113,328
AERONAUTICAL	13,292	13,594	14,062
ASTRONAUTICAL	6,050	8,444	6,173
CHEMICAL	2,617	2,915	3,011
CIVIL	8,172	7,173	6,808
ELECTRICAL	27,547	28,741	32,582
MECHANICAL	8,380	9,074	8,605
METALLURGY & MATERIALS	5,694	6,276	7,200
ENGINEERING, NEC	30,743	35,165	34,887
SOCIAL SCIENCES, TOTAL	66,881	70,673	65,029
ANTHROPOLOGY	479	510	567
ECONOMICS	31,407	33,428	30,087
POLITICAL SCIENCE	715	731	770
SOCIOLOGY	13,381	14,600	13,445
SOCIAL SCIENCES, NEC	20,899	21,404	20,160
OTHER SCIENCES, NEC	32,565	37,696	34,228

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS
TABLE REPRESENT APPROXIMATELY 86 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH
OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1982, 1983, AND 1984.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-92. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY AGENCY AND FIELD OF SCIENCE:
FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY- CHOLOGY	PHYSICAL SCIENCES	ENVIRON- MENTAL SCIENCES	MATHE- MATICS AND COM- PUTER SCIENCES	ENGI- NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	1,102,431	721,333	35,736	103,879	18,733	20,809	102,495	66,881	32,565
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	145,322	100,730	-	7,436	1,114	738	5,760	29,544	-
AGRICULTURAL COOPERATIVE SERVICE	254	-	-	-	-	-	-	254	-
AGRICULTURAL MARKETING SERVICE	65	65	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	14,494	11,350	-	1,330	108	65	1,568	73	-
COOPERATIVE STATE RESEARCH SERVICE	122,284	84,033	-	6,106	765	-	4,192	27,188	-
ECONOMIC RESEARCH SERVICE	1,345	-	-	-	-	227	-	1,118	-
FOREST SERVICE	4,944	3,762	-	-	241	30	-	911	-
HUMAN NUTRITION INFORMATION SERVICE	1,520	1,520	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	416	-	-	-	-	416	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	107,320	16,578	3,027	16,606	6,126	15,243	48,913	19	808
DEPARTMENT OF THE ARMY	21,887	11,155	624	1,433	1,274	526	6,675	19	181
DEPARTMENT OF THE NAVY	17,560	1,713	670	8,582	1,352	1,383	3,860	-	-
DEPARTMENT OF THE AIR FORCE	47,089	3,400	1,733	4,614	2,985	2,425	31,833	-	99
DEFENSE AGENCIES	20,784	310	-	1,977	515	10,909	6,545	-	528
DEPARTMENT OF ENERGY	100,615	26,031	-	60,399	410	117	12,110	434	1,114
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	680,161	565,808	32,343	8,957	-	1,677	10,431	32,945	28,000
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	67,130	34,005	18,436	305	-	239	-	12,270	1,675
CENTERS FOR DISEASE CONTROL	7,147	7,147	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	4,302	4,302	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	5,340	-	-	-	-	-	-	5,340	-
HEALTH RESOURCES AND SERVICES ADMINISTRATION	5,157	-	-	-	-	-	-	-	5,157
HUMAN DEVELOPMENT SERVICES	1,726	-	-	-	-	-	-	1,726	-
NATIONAL INSTITUTES OF HEALTH	584,273	520,354	13,707	8,652	-	1,438	10,431	8,528	21,168
OFFICE OF ASST'T SECY FOR HEALTH ...	2,643	-	-	-	-	-	-	2,643	-
OFFICE OF THE SECRETARY	1,246	-	-	-	-	-	-	1,246	-
SOCIAL SECURITY ADMINISTRATION	1,192	-	-	-	-	-	-	1,192	-
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN ...	29,976	2,086	152	5,297	7,983	1,487	11,846	13	1,112
NATIONAL SCIENCE FOUNDATION	39,037	10,100	214	5,184	3,100	1,547	13,435	3,926	1,531

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 84 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1982.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-93. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	35,736	11,186	9,891	14,659	721,333	251,688	7,164	82,423	351,991	28,067
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	-	-	-	-	100,730	11,970	1,011	82,036	5,713	-
AGRICULTURAL MARKETING SERVICE	-	-	-	-	65	-	-	65	-	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	11,350	344	519	10,308	179	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	84,033	6,356	-	70,143	5,534	-
FOREST SERVICE	-	-	-	-	3,762	3,270	492	-	-	-
HUMAN NUTRITION INFORMATION SERVICE	-	-	-	-	1,520	-	-	1,520	-	-
DEPARTMENT OF DEFENSE, TOTAL	3,027	-	2,632	395	16,578	415	276	86	12,548	3,253
DEPARTMENT OF THE ARMY	624	-	624	-	11,155	90	149	86	10,784	46
DEPARTMENT OF THE NAVY	670	-	275	395	1,713	15	-	-	1,698	-
DEPARTMENT OF THE AIR FORCE	1,733	-	1,733	-	3,400	-	127	-	66	3,207
DEFENSE AGENCIES	-	-	-	-	310	310	-	-	-	-
DEPARTMENT OF ENERGY	-	-	-	-	26,031	15,383	-	243	6,320	4,085
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	32,343	11,120	7,162	14,061	565,808	219,341	77	-	326,654	19,736
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	18,636	11,120	7,162	354	34,005	20,170	-	-	12,076	1,759
CENTERS FOR DISEASE CONTROL	-	-	-	-	7,147	-	-	-	7,147	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	4,302	2,581	-	-	1,721	-
NATIONAL INSTITUTES OF HEALTH	13,707	-	-	13,707	520,354	196,590	77	-	305,710	17,977
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN ...	152	-	-	152	2,086	411	20	40	756	859
NATIONAL SCIENCE FOUNDATION	214	66	97	51	10,100	4,168	5,780	18	-	134

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 84 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1982.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-94. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	103,879	6,407	24,321	67,413	5,738	18,733	10,670	2,777	876	4,410
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	7,436	-	7,339	97	-	1,114	942	172	-	-
AGRICULTURAL RESEARCH SERVICE	1,330	-	1,233	97	-	108	73	35	-	-
COOPERATIVE STATE RESEARCH SERVICE	6,106	-	6,106	-	-	765	765	-	-	-
FOREST SERVICE	-	-	-	-	-	241	104	137	-	-
DEPARTMENT OF DEFENSE, TOTAL	16,606	-	2,124	13,474	1,008	6,126	4,264	739	444	679
DEPARTMENT OF THE ARMY	1,433	-	704	319	410	1,274	644	306	-	324
DEPARTMENT OF THE NAVY	8,582	-	130	8,382	70	1,352	937	-	415	-
DEPARTMENT OF THE AIR FORCE	4,614	-	1,290	3,117	207	2,985	2,585	400	-	-
DEFENSE AGENCIES	1,977	-	-	1,656	321	515	98	33	29	255
DEPARTMENT OF ENERGY	60,399	3,414	3,569	49,473	3,943	410	246	-	-	164
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	8,957	-	8,555	402	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	305	-	305	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	8,652	-	8,250	402	-	-	-	-	-	-
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN ...	5,297	2,981	425	1,184	707	7,983	4,376	253	240	3,114
NATIONAL SCIENCE FOUNDATION	5,184	12	2,309	2,783	80	3,100	842	1,613	192	453

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 84 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1982.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-95. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN ENGINEERING,
BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO- NAUTICAL	ASTRO- NAUTICAL	CHEMICAL	CIVIL	ELEC- TRICAL	MECHAN- ICAL	METAL- LURGY AND MATERIALS	ENGI- NEERING NEC
TOTAL, ALL AGENCIES	102,495	13,292	6,050	2,617	8,172	27,547	8,380	5,694	30,743
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	5,760	-	-	130	108	14	56	-	5,452
AGRICULTURAL RESEARCH SERVICE	1,568	-	-	130	108	14	56	-	1,260
COOPERATIVE STATE RESEARCH SERVICE ..	4,192	-	-	-	-	-	-	-	4,192
DEPARTMENT OF DEFENSE, TOTAL	48,913	9,499	5,409	465	1,783	20,693	4,421	3,508	3,135
DEPARTMENT OF THE ARMY	6,675	342	100	106	1,327	2,595	895	382	928
DEPARTMENT OF THE NAVY	3,860	122	-	105	95	602	2,608	198	130
DEPARTMENT OF THE AIR FORCE	31,833	9,018	4,478	254	226	14,749	918	1,394	796
DEFENSE AGENCIES	6,545	17	831	-	135	2,747	-	1,534	1,281
DEPARTMENT OF ENERGY	12,110	-	234	173	1,548	1,559	23	10	8,563
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	10,431	-	-	-	-	-	-	-	10,431
NATIONAL INSTITUTES OF HEALTH	10,431	-	-	-	-	-	-	-	10,431
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN ...	11,846	3,781	406	45	-	1,960	2,687	467	2,500
NATIONAL SCIENCE FOUNDATION	13,435	12	1	1,804	4,733	3,321	1,193	1,709	662

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 84 PERCENT OF
TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1982.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-96. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHE- MATICS	COMPUTER SCIENCES	MATHE- MATICS AND COM- PUTER SCIENCES NEG	TOTAL	ANTHRO- POLOGY	ECONOM- ICS	POLITI- CAL SCIENCE	SOCI- OLOGY	SOCIAL SCIENCES NEG
TOTAL, ALL AGENCIES	20,809	3,414	13,881	3,514	66,881	479	31,407	715	13,381	20,899
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	738	738	-	-	29,544	-	28,039	4	1,463	38
AGRICULTURAL COOPERATIVE SERVICE ...	-	-	-	-	254	-	254	-	-	-
AGRICULTURAL RESEARCH SERVICE	65	65	-	-	73	-	43	-	-	30
COOPERATIVE STATE RESEARCH SERVICE ..	-	-	-	-	27,188	-	25,749	-	1,439	-
ECONOMIC RESEARCH SERVICE	227	227	-	-	1,118	-	1,082	4	24	8
FOREST SERVICE	30	30	-	-	911	-	911	-	-	-
STATISTICAL REPORTING SERVICE	416	416	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	15,243	518	11,419	3,306	19	-	13	-	6	-
DEPARTMENT OF THE ARMY	526	31	463	32	19	-	13	-	6	-
DEPARTMENT OF THE NAVY	1,383	-	1,383	-	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	2,425	292	1,860	273	-	-	-	-	-	-
DEFENSE AGENCIES	10,909	195	7,713	3,001	-	-	-	-	-	-
DEPARTMENT OF ENERGY	117	-	-	117	434	-	-	-	-	434
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	1,677	1,677	-	-	32,945	403	1,588	368	11,442	19,144
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	239	239	-	-	12,270	403	183	368	9,481	1,835
HEALTH CARE FINANCING ADMIN	-	-	-	-	5,340	-	-	-	-	5,340
HUMAN DEVELOPMENT SERVICES	-	-	-	-	1,726	-	-	-	-	1,726
NATIONAL INSTITUTES OF HEALTH	1,438	1,438	-	-	8,528	-	-	-	-	8,528
OFFICE OF ASST'T SECY FOR HEALTH ...	-	-	-	-	2,643	-	532	-	1,588	523
OFFICE OF THE SECRETARY	-	-	-	-	1,246	-	873	-	373	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	1,192	-	-	-	-	1,192
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,487	124	1,272	91	13	-	-	-	-	13
NATIONAL SCIENCE FOUNDATION	1,547	357	1,190	-	3,926	76	1,767	343	470	1,270

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 84 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1982.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-97. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO FOREIGN PERFORMERS, BY REGION, COUNTRY, AND AGENCY: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

REGION AND COUNTRY	TOTAL	DEPARTMENT OF AGRICULTURE	DEPARTMENT OF DEFENSE	DEPARTMENT OF ENERGY	DEPARTMENT OF HEALTH AND HUMAN SERVICES	AGENCY FOR INTERNATIONAL DEVELOPMENT	NATIONAL SCIENCE FOUNDATION	OTHER
TOTAL	214,277	2,076	77,034	11,439	26,634	88,547	777	7,770
EUROPE, TOTAL	82,727	573	62,752	11,415	5,903	-	210	1,874
AUSTRIA	195	14	91	90	-	-	-	-
BELGIUM	970	-	502	250	133	-	-	85
DENMARK	185	-	81	-	104	-	-	-
FINLAND	292	-	14	-	278	-	-	-
FRANCE	2,431	287	1,368	-	88	-	-	688
IRELAND	206	-	131	75	-	-	-	-
ITALY	608	135	194	-	269	-	-	10
NETHERLANDS	355	130	7	-	218	-	-	-
NORWAY	3,925	-	3,725	-	-	-	-	200
POLAND	1	1	-	-	-	-	-	-
PORTUGAL	44	-	44	-	-	-	-	-
SPAIN	258	-	223	-	35	-	-	-
SWEDEN	2,304	-	15	900	1,349	-	-	40
SWITZERLAND	1,092	-	176	134	695	-	74	13
UNITED KINGDOM, TOTAL	64,708	-	54,871	6,946	2,264	-	136	491
ENGLAND	59,171	-	49,610	6,870	2,200	-	-	491
SCOTLAND	402	-	287	51	64	-	-	-
BERMUDA	121	-	50	25	-	-	46	-
OTHER UNITED KINGDOM	5,014	-	4,924	-	-	-	90	-
WEST GERMANY	4,915	-	1,310	3,020	388	-	-	197
YUGOSLAVIA	205	6	-	-	49	-	-	150
OTHER EUROPE	33	-	-	-	33	-	-	-
ASIA, TOTAL	9,151	1,038	2,414	-	2,163	840	567	2,129
BURMA	151	1	-	-	-	150	-	-
INDIA	5,745	835	1,827	-	1,396	-	435	1,252
INDONESIA	150	-	-	-	-	150	-	-
JAPAN	1,072	67	-	-	520	-	-	485
SOUTH KOREA	104	-	92	-	12	-	-	-
MALAYSIA	495	-	495	-	-	-	-	-
PAKISTAN	630	95	-	-	11	-	132	392
THAILAND	69	40	-	-	29	-	-	-
OTHER ASIA	735	-	-	-	195	540	-	-
NEAR EAST, TOTAL	7,358	225	1,445	24	4,552	1,000	-	112
EGYPT	1,460	225	17	-	1,160	-	-	58
GREECE	4	-	4	-	-	-	-	-
ISRAEL	4,883	-	1,413	24	3,392	-	-	54
TURKEY	11	-	11	-	-	-	-	-
OTHER NEAR EAST	1,000	-	-	-	-	1,000	-	-
AFRICA, TOTAL	10,608	73	-	-	105	10,380	-	50
KENYA	59	59	-	-	-	-	-	-
UNION OF SOUTH AFRICA	42	-	-	-	42	-	-	-
OTHER AFRICA	10,507	14	-	-	63	10,380	-	50
LATIN AMERICA, TOTAL	5,818	99	404	-	1,878	3,437	-	-
ARGENTINA	213	70	25	-	118	-	-	-
BRAZIL	306	-	178	-	-	128	-	-
COSTA RICA	100	-	-	-	-	100	-	-
ECUADOR	150	-	-	-	-	150	-	-
MEXICO	68	-	-	-	68	-	-	-
PANAMA	1,883	-	191	-	1,692	-	-	-
VENEZUELA	10	-	10	-	-	-	-	-
OTHER LATIN AMERICA	3,088	29	-	-	-	3,059	-	-
AUSTRALIA	2,082	-	148	-	1,301	-	-	633
CANADA	20,005	58	9,825	-	7,150	-	-	2,972
NEW ZEALAND	114	10	46	-	58	-	-	-
INTERNATIONAL ORGANIZATIONS	76,414	-	-	-	3,524	72,890	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-98. FEDERAL OBLIGATIONS FOR BASIC RESEARCH TO FOREIGN PERFORMERS, BY REGION, COUNTRY, AND AGENCY: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

REGION AND COUNTRY	TOTAL	DEPARTMENT OF AGRICULTURE	DEPARTMENT OF DEFENSE	DEPARTMENT OF HEALTH AND HUMAN SERVICES	NATIONAL SCIENCE FOUNDATION	NATIONAL AERONAUTICS AND SPACE ADMIN	OTHER
TOTAL	24,893	973	9,990	9,913	605	2,842	570
EUROPE, TOTAL	7,656	258	4,681	2,288	210	129	90
AUSTRIA	136	-	46	-	-	-	90
BELGIUM	243	-	149	94	-	-	-
DENMARK	122	-	46	76	-	-	-
FINLAND	138	-	14	124	-	-	-
FRANCE	461	108	309	44	-	-	-
IRELAND	131	-	131	-	-	-	-
ITALY	208	76	87	45	-	-	-
NETHERLANDS	78	71	7	-	-	-	-
NORWAY	110	-	110	-	-	-	-
PORTUGAL	13	-	13	-	-	-	-
SPAIN	173	-	138	35	-	-	-
SWEDEN	772	-	15	757	-	-	-
SWITZERLAND	477	-	176	223	74	4	-
UNITED KINGDOM, TOTAL	4,055	-	3,093	743	136	83	-
ENGLAND	3,614	-	2,788	743	-	83	-
SCOTLAND	287	-	287	-	-	-	-
BERMUDA	46	-	-	-	46	-	-
OTHER UNITED KINGDOM	108	-	18	-	90	-	-
WEST GERMANY	519	-	347	130	-	42	-
YUGOSLAVIA	3	3	-	-	-	-	-
OTHER EUROPE	17	-	-	17	-	-	-
ASIA, TOTAL	2,785	459	1,399	132	395	2	398
INDIA	2,434	367	1,307	75	305	-	380
JAPAN	61	31	-	28	-	2	-
SOUTH KOREA	104	-	92	12	-	-	-
PAKISTAN	157	42	-	7	90	-	18
THAILAND	29	19	-	10	-	-	-
NEAR EAST, TOTAL	3,311	99	1,199	1,915	-	16	82
EGYPT	174	99	17	-	-	-	58
GREECE	4	-	4	-	-	-	-
ISRAEL	3,122	-	1,167	1,915	-	16	24
TURKEY	11	-	11	-	-	-	-
AFRICA, TOTAL	47	44	-	3	-	-	-
KENYA	38	38	-	-	-	-	-
UNION OF SOUTH AFRICA	3	-	-	3	-	-	-
OTHER AFRICA	6	6	-	-	-	-	-
LATIN AMERICA, TOTAL	207	45	35	127	-	-	-
ARGENTINA	128	32	25	71	-	-	-
MEXICO	56	-	-	56	-	-	-
VENEZUELA	10	-	10	-	-	-	-
OTHER LATIN AMERICA	13	13	-	-	-	-	-
AUSTRALIA	988	-	73	784	-	131	-
CANADA	9,276	58	2,557	4,097	-	2,564	-
NEW ZEALAND	101	10	46	45	-	-	-
INTERNATIONAL ORGANIZATIONS	522	-	-	522	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-99. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO FOREIGN PERFORMERS AND AMOUNT SUPPORTED THROUGH THE SPECIAL FOREIGN CURRENCY PROGRAM, BY AGENCY: FISCAL YEARS 1982, 1983, AND 1984

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1982		ESTIMATES			
	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	1983		1984	
			TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM
TOTAL, ALL AGENCIES	214,277	5,135	187,641	14,958	184,814	16,615
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	2,076	1,179	8,250	7,356	7,041	6,149
AGRICULTURAL RESEARCH SERVICE	815	-	815	-	815	-
FOREST SERVICE	82	-	79	-	77	-
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	1,179	1,179	7,356	7,356	6,149	6,149
DEPARTMENT OF COMMERCE, TOTAL	294	20	824	480	802	680
NATIONAL BUREAU OF STANDARDS	49	-	-	-	-	-
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	225	-	344	-	122	-
OFFICE OF THE SECRETARY	20	20	480	480	680	680
DEPARTMENT OF DEFENSE, TOTAL	77,034	-	56,910	2,971	50,265	3,793
DEPARTMENT OF THE ARMY	11,105	-	7,336	-	8,702	-
DEPARTMENT OF THE NAVY	53,926	-	35,190	2,971	30,717	3,793
DEPARTMENT OF THE AIR FORCE	9,106	-	11,046	-	8,103	-
DEFENSE AGENCIES	2,897	-	3,338	-	2,743	-
DEPARTMENT OF EDUCATION	2,056	1,296	605	-	715	-
DEPARTMENT OF ENERGY	11,439	12	6,730	12	767	12
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	26,634	1,625	31,710	3,246	33,305	4,294
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	1,017	27	1,221	96	1,424	144
CENTERS FOR DISEASE CONTROL	234	234	1,150	1,150	1,750	1,750
FOOD & DRUG ADMINISTRATION	120	-	100	-	100	-
HUMAN DEVELOPMENT SERVICES	15	-	8	-	9	-
NATIONAL INSTITUTES OF HEALTH	25,063	1,283	28,731	1,500	29,122	1,500
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	81	81	500	500	900	900
SOCIAL SECURITY ADMINISTRATION	104	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	436	436	509	509	1,474	1,474
OFFICE OF THE SECRETARY	436	436	509	509	1,474	1,474
DEPARTMENT OF LABOR, TOTAL	32	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMINISTRATION	32	-	-	-	-	-
OTHER AGENCIES						
AGENCY FOR INTERNATIONAL DEVELOPMENT	88,547	-	75,595	-	84,169	-
ENVIRONMENTAL PROTECTION AGENCY	-	-	700	-	900	-
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	4,192	-	4,245	-	4,245	-
NATIONAL SCIENCE FOUNDATION	777	567	534	384	371	213
NUCLEAR REGULATORY COMMISSION	760	-	1,029	-	760	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-100. FEDERAL OBLIGATIONS FOR BASIC RESEARCH TO FOREIGN PERFORMERS AND AMOUNT SUPPORTED THROUGH THE SPECIAL FOREIGN CURRENCY PROGRAM, BY AGENCY: FISCAL YEARS 1982, 1983, AND 1984

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1982		ESTIMATES			
	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	1983		1984	
			TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM
TOTAL, ALL AGENCIES	24,893	1,451	31,770	7,501	33,868	8,993
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	973	518	3,689	3,237	3,157	2,706
AGRICULTURAL RESEARCH SERVICE	387	-	386	-	386	-
FOREST SERVICE	68	-	66	-	65	-
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	518	518	3,237	3,237	2,706	2,706
DEPARTMENT OF COMMERCE, TOTAL	20	20	190	190	240	240
OFFICE OF THE SECRETARY	20	20	190	190	240	240
DEPARTMENT OF DEFENSE, TOTAL	9,990	-	11,960	2,971	13,656	3,793
DEPARTMENT OF THE ARMY	2,999	-	3,428	-	3,940	-
DEPARTMENT OF THE NAVY	2,994	-	4,302	2,971	4,799	3,793
DEPARTMENT OF THE AIR FORCE	3,656	-	3,950	-	4,400	-
DEFENSE AGENCIES	341	-	280	-	517	-
DEPARTMENT OF ENERGY	114	-	114	-	100	-
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	9,913	82	12,151	412	12,198	720
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	347	27	410	72	539	108
NATIONAL INSTITUTES OF HEALTH	9,511	-	11,401	-	11,047	-
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	55	55	340	340	612	612
DEPARTMENT OF THE INTERIOR, TOTAL	436	436	509	509	1,474	1,474
OFFICE OF THE SECRETARY	436	436	509	509	1,474	1,474
OTHER AGENCIES						
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	2,842	-	2,825	-	2,825	-
NATIONAL SCIENCE FOUNDATION	605	395	332	182	218	60

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-101. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH TO FOREIGN PERFORMERS AND AMOUNT SUPPORTED THROUGH THE SPECIAL FOREIGN CURRENCY PROGRAM, BY AGENCY: FISCAL YEARS 1982, 1983, AND 1984

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1982		ESTIMATES			
	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	1983		1984	
			TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM
TOTAL, ALL AGENCIES	83,432	3,581	84,925	6,865	88,633	7,126
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	961	566	3,925	3,531	3,344	2,951
AGRICULTURAL RESEARCH SERVICE	381	-	381	-	381	-
FOREST SERVICE	14	-	13	-	12	-
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	566	566	3,531	3,531	2,951	2,951
DEPARTMENT OF COMMERCE, TOTAL	274	-	634	290	562	440
NATIONAL BUREAU OF STANDARDS	49	-	-	-	-	-
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	225	-	344	-	122	-
OFFICE OF THE SECRETARY	-	-	290	290	440	440
DEPARTMENT OF DEFENSE, TOTAL	7,682	-	6,437	-	6,493	-
DEPARTMENT OF THE ARMY	3,268	-	2,133	-	3,105	-
DEPARTMENT OF THE NAVY	820	-	19	-	40	-
DEPARTMENT OF THE AIR FORCE	1,038	-	1,056	-	1,122	-
DEFENSE AGENCIES	2,556	-	3,058	-	2,226	-
DEPARTMENT OF EDUCATION	1,974	1,296	605	-	715	-
DEPARTMENT OF ENERGY	3,311	4	4,362	8	510	8
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	14,591	1,543	17,188	2,834	18,634	3,574
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	670	-	811	24	885	36
CENTERS FOR DISEASE CONTROL	234	234	1,150	1,150	1,750	1,750
FOOD & DRUG ADMINISTRATION	120	-	100	-	100	-
HUMAN DEVELOPMENT SERVICES	15	-	8	-	9	-
NATIONAL INSTITUTES OF HEALTH	13,422	1,283	14,959	1,500	15,602	1,500
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	26	26	160	160	288	288
SOCIAL SECURITY ADMINISTRATION	104	-	-	-	-	-
DEPARTMENT OF LABOR, TOTAL	32	-	-	-	-	-
EMPLOYMENT AND TRAINING ADMINISTRATION	32	-	-	-	-	-
OTHER AGENCIES						
AGENCY FOR INTERNATIONAL DEVELOPMENT	52,865	-	48,968	-	55,687	-
ENVIRONMENTAL PROTECTION AGENCY	-	-	700	-	900	-
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	810	-	875	-	875	-
NATIONAL SCIENCE FOUNDATION	172	172	202	202	153	153
NUCLEAR REGULATORY COMMISSION	760	-	1,029	-	760	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-102. FEDERAL OBLIGATIONS FOR DEVELOPMENT TO FOREIGN PERFORMERS AND AMOUNT SUPPORTED THROUGH THE SPECIAL FOREIGN CURRENCY PROGRAM, BY AGENCY: FISCAL YEARS 1982, 1983, AND 1984

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1982		ESTIMATES			
	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	1983		1984	
			TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM
TOTAL, ALL AGENCIES	105,952	103	70,946	592	62,313	496
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	142	95	636	588	540	492
AGRICULTURAL RESEARCH SERVICE	47	-	48	-	48	-
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	95	95	588	588	492	492
DEPARTMENT OF DEFENSE, TOTAL	59,362	-	38,513	-	30,116	-
DEPARTMENT OF THE ARMY	4,838	-	1,775	-	1,657	-
DEPARTMENT OF THE NAVY	50,112	-	30,698	-	25,878	-
DEPARTMENT OF THE AIR FORCE	4,412	-	6,040	-	2,581	-
DEPARTMENT OF EDUCATION	82	-	-	-	-	-
DEPARTMENT OF ENERGY	8,014	8	2,254	4	157	4
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	2,130	-	2,371	-	2,473	-
NATIONAL INSTITUTES OF HEALTH	2,130	-	2,371	-	2,473	-
OTHER AGENCIES						
AGENCY FOR INTERNATIONAL DEVELOPMENT	35,682	-	26,627	-	28,482	-
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	540	-	545	-	545	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-103. FEDERAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY GEOGRAPHIC DIVISION AND STATE: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

GEOGRAPHIC DIVISION AND STATE	RESEARCH, DEVELOPMENT AND R&D PLANT	RESEARCH AND DEVELOPMENT	R&D PLANT
TOTAL.....	36,741,688	35,361,579	1,380,109
NEW ENGLAND.....	3,617,889	3,567,323	50,566
CONNECTICUT.....	464,636	439,554	25,082
MAINE.....	23,916	23,900	16
MASSACHUSETTS.....	2,798,490	2,775,192	23,298
NEW HAMPSHIRE.....	50,906	50,816	90
RHODE ISLAND.....	244,210	242,130	2,080
VERMONT.....	35,731	35,731	-
MIDDLE ATLANTIC.....	3,884,998	3,711,935	173,063
NEW JERSEY.....	944,916	887,944	56,972
NEW YORK.....	1,757,451	1,692,498	64,953
PENNSYLVANIA.....	1,182,631	1,131,493	51,138
EAST NORTH CENTRAL.....	2,367,584	2,260,149	107,435
ILLINOIS.....	617,292	543,023	74,269
INDIANA.....	186,797	186,172	625
MICHIGAN.....	384,503	376,701	7,802
OHIO.....	1,048,552	1,024,807	23,745
WISCONSIN.....	130,440	129,446	994
WEST NORTH CENTRAL.....	2,162,522	2,151,274	11,248
IOWA.....	138,509	136,270	2,239
KANSAS.....	637,782	637,664	118
MINNESOTA.....	375,028	378,616	412
MISSOURI.....	916,984	911,311	5,673
NEBRASKA.....	32,691	31,988	703
NORTH DAKOTA.....	37,703	36,460	1,243
SOUTH DAKOTA.....	19,825	18,965	860
SOUTH ATLANTIC.....	7,801,489	7,563,561	237,928
DELAWARE.....	34,688	34,582	106
DISTRICT OF COLUMBIA.....	988,242	954,649	33,593
FLORIDA.....	1,808,218	1,776,426	31,792
GEORGIA.....	218,727	217,263	1,464
MARYLAND.....	2,932,401	2,850,160	82,241
NORTH CAROLINA.....	274,061	272,671	1,390
SOUTH CAROLINA.....	163,892	98,732	65,160
VIRGINIA.....	1,289,194	1,268,063	21,131
WEST VIRGINIA.....	92,066	91,015	1,051
EAST SOUTH CENTRAL.....	1,565,034	1,486,683	78,351
ALABAMA.....	567,374	561,543	5,831
KENTUCKY.....	98,604	97,153	1,441
MISSISSIPPI.....	131,592	125,701	5,891
TENNESSEE.....	767,464	702,276	65,188
WEST SOUTH CENTRAL.....	1,434,771	1,400,110	34,661
ARKANSAS.....	44,511	43,485	1,026
LOUISIANA.....	258,974	236,791	22,183
OKLAHOMA.....	66,760	65,554	1,206
TEXAS.....	1,064,526	1,054,280	10,246
MOUNTAIN.....	3,272,253	3,002,829	269,424
ARIZONA.....	264,877	264,470	407
COLORADO.....	573,167	556,536	16,571
IDAHO.....	148,393	126,959	21,434
MONTANA.....	42,797	42,683	114
NEVADA.....	406,271	376,280	29,991
NEW MEXICO.....	1,519,195	1,322,595	196,600
UTAH.....	291,014	287,866	3,148
WYOMING.....	26,539	25,380	1,159
PACIFIC.....	10,533,501	10,118,023	415,478
ALASKA.....	40,016	40,003	13
CALIFORNIA.....	9,222,855	8,888,300	334,555
HAWAII.....	44,603	44,544	59
OREGON.....	106,399	106,319	80
WASHINGTON.....	1,119,628	1,038,857	80,771
OUTLYING AREAS.....	41,244	40,726	518
OFFICES ABROAD.....	60,403	58,966	1,437

NOTE: THE OBLIGATIONS OF THE TEN MAJOR R&D SUPPORTING AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 97 PERCENT OF TOTAL FEDERAL R&D AND R&D PLANT OBLIGATIONS IN FY 1982.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-104. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY STATE AND PERFORMER: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						STATE AND LOCAL GOVTS
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVER- SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON- PROFIT INSTITU- TIONS	FFRDCS ADMIN BY NONPROFIT INSTITU- TIONS	
TOTAL.....	35,361,579	8,784,276	17,135,806	1,373,871	4,444,001	1,943,395	1,000,613	500,156	179,461
CALIFORNIA.....	8,888,300	1,181,326	5,722,621	75,001	627,520	799,278	165,567	296,934	22,053
MARYLAND.....	2,850,160	1,970,714	613,756	26,435	214,600	-	20,219	204	4,232
MASSACHUSETTS.....	2,775,192	239,069	1,544,034	-	514,832	153,977	243,096	72,416	7,768
FLORIDA.....	1,776,426	769,446	912,553	-	81,354	-	7,302	-	5,771
NEW YORK.....	1,632,498	128,801	689,475	145,047	464,443	127,671	104,645	-	32,416
NEW MEXICO.....	1,322,595	257,217	207,784	428,502	27,956	383,123	16,243	-	1,770
VIRGINIA.....	1,268,063	503,562	603,495	-	67,044	17,707	42,085	30,250	3,920
PENNSYLVANIA.....	1,131,493	234,405	347,448	254,437	237,383	-	53,423	-	4,397
TEXAS.....	1,054,280	232,771	570,668	-	218,509	-	25,686	-	6,646
WASHINGTON.....	1,038,857	66,264	662,062	115,621	116,127	-	22,513	49,553	6,737
OHIO.....	1,024,807	481,204	380,970	7,427	115,400	-	35,466	-	4,340
DISTRICT OF COLUMBIA.....	954,649	716,812	122,162	-	42,380	-	72,123	-	1,172
MISSOURI.....	911,311	30,131	783,377	-	82,335	-	13,385	-	2,083
NEW JERSEY.....	887,944	282,111	450,569	-	57,931	88,316	5,226	-	3,791
TENNESSEE.....	702,276	76,569	343,425	212,557	58,681	1,299	8,246	-	1,499
KANSAS.....	637,664	7,062	603,757	-	25,031	-	974	-	840
ALABAMA.....	561,543	322,751	176,409	-	47,144	-	13,788	-	1,451
COLORADO.....	556,596	83,391	301,006	317	76,308	32,534	8,366	50,819	3,855
ILLINOIS.....	543,023	53,489	47,014	-	181,456	230,380	26,579	-	4,105
CONNECTICUT.....	439,554	14,501	312,364	-	104,241	-	4,249	-	4,199
MINNESOTA.....	378,616	24,232	248,754	-	78,751	-	25,053	-	1,826
MICHIGAN.....	376,701	44,767	187,042	-	121,206	-	17,148	-	6,538
NEVADA.....	376,280	63,035	303,907	-	7,243	-	636	-	1,459
UTAH.....	287,866	50,299	179,824	-	53,245	-	2,014	-	2,484
NORTH CAROLINA.....	272,671	114,012	21,952	-	124,559	-	11,031	-	1,117
ARIZONA.....	264,470	67,759	137,274	-	43,444	11,220	2,177	-	2,596
RHODE ISLAND.....	242,130	177,806	23,722	-	32,371	-	7,593	-	638
LOUISIANA.....	236,791	37,692	160,618	-	32,613	-	7,914	-	1,954
GEORGIA.....	217,263	70,338	64,938	-	74,994	-	4,732	-	2,261
INDIANA.....	186,172	44,343	66,597	-	72,958	-	1,604	-	670
IOWA.....	136,270	13,339	60,837	-	47,165	13,800	114	-	1,015
WISCONSIN.....	129,446	18,844	6,468	1,643	99,271	-	1,983	-	1,237
IDAHO.....	126,959	10,125	4,800	52,675	5,197	50,030	1,672	-	2,460
MISSISSIPPI.....	125,701	87,509	18,908	-	17,559	-	870	-	855
OREGON.....	106,319	33,484	12,762	-	46,880	-	9,317	-	3,876
SOUTH CAROLINA.....	98,732	9,529	31,309	32,559	22,501	-	1,588	-	1,246
KENTUCKY.....	97,163	16,149	58,253	-	21,312	-	404	-	1,045
WEST VIRGINIA.....	91,015	38,801	25,516	-	10,450	14,840	82	-	1,326
OKLAHOMA.....	65,554	26,213	11,633	-	22,188	-	4,365	-	1,155
NEW HAMPSHIRE.....	50,816	15,720	16,246	-	17,289	-	902	-	659
HAWAII.....	44,544	10,703	7,760	-	22,132	-	3,212	-	737
ARKANSAS.....	43,485	25,741	5,682	-	10,656	-	58	-	1,348
MONTANA.....	42,683	17,944	10,785	-	7,458	-	479	-	6,017
ALASKA.....	40,003	21,215	1,412	-	10,713	-	1,975	-	4,688
NORTH DAKOTA.....	36,460	16,755	11,554	-	6,757	-	-	-	1,394
VERMONT.....	35,731	993	20,227	-	13,637	-	199	-	675
DELAWARE.....	34,582	966	3,108	21,650	8,247	-	556	-	55
NEBRASKA.....	31,988	10,013	6,197	-	12,827	-	1,917	-	1,034
WYOMING.....	25,380	18,143	215	-	6,786	-	-	-	236
MAINE.....	23,900	3,622	5,208	-	5,415	-	7,528	-	2,127
SOUTH DAKOTA.....	18,965	5,204	22	-	4,706	7,843	10	-	1,180
OUTLYING AREAS.....	40,726	22,516	128	-	12,150	5,320	104	-	508
OFFICES ABROAD.....	58,966	14,869	27,199	-	10,646	6,057	195	-	-

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

NOTE: THE OBLIGATIONS OF THE TEN MAJOR R&D SUPPORTING AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 97 PERCENT OF TOTAL FEDERAL R&D OBLIGATIONS IN FY 1982.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-104A. PERCENT DISTRIBUTION OF FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO EACH PERFORMER, BY STATE: FISCAL YEAR 1982

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						STATE AND LOCAL GOVTS
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	
TOTAL.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
CALIFORNIA.....	25.1	13.4	33.4	5.5	14.1	41.1	16.3	59.4	12.3
MARYLAND.....	8.1	22.4	3.6	1.9	4.8	-	2.0	*	2.4
MASSACHUSETTS.....	7.8	2.7	9.0	-	11.6	7.9	24.3	14.5	4.3
FLORIDA.....	5.0	8.8	5.3	-	1.8	-	.7	-	3.2
NEW YORK.....	4.8	1.5	4.0	10.6	10.5	6.6	10.5	-	18.1
NEW MEXICO.....	3.7	2.9	1.2	31.2	.6	19.7	1.6	-	1.0
VIRGINIA.....	3.6	5.7	3.5	-	1.5	.9	4.2	6.0	2.2
PENNSYLVANIA.....	3.2	2.7	2.0	18.5	5.3	-	5.3	-	2.5
TEXAS.....	3.0	2.6	3.3	-	4.9	-	2.6	-	3.7
WASHINGTON.....	2.9	.8	3.9	8.4	2.6	-	2.2	9.9	3.8
OHIO.....	2.9	5.5	2.2	.5	2.6	-	3.5	-	2.4
DISTRICT OF COLUMBIA.....	2.7	8.2	.7	-	1.0	-	7.2	-	.7
MISSOURI.....	2.6	.3	4.6	-	1.9	-	1.3	-	1.2
NEW JERSEY.....	2.5	3.2	2.6	-	1.3	4.5	.5	-	2.1
TENNESSEE.....	2.0	.9	2.0	15.5	1.3	.1	.8	-	.8
KANSAS.....	1.8	.1	3.5	-	.6	-	.1	-	.5
ALABAMA.....	1.6	3.7	1.0	-	1.1	-	1.4	-	.8
COLORADO.....	1.6	.9	1.8	*	1.7	1.7	.8	10.2	2.1
ILLINOIS.....	1.5	.6	.3	-	4.1	11.9	2.7	-	2.3
CONNECTICUT.....	1.2	.2	1.8	-	2.3	-	.4	-	2.3
MINNESOTA.....	1.1	.3	1.5	-	1.8	-	2.5	-	1.0
MICHIGAN.....	1.1	.5	1.1	-	2.7	-	1.7	-	3.6
NEVADA.....	1.1	.7	1.8	-	.2	-	.1	-	.8
UTAH.....	.8	.6	1.0	-	1.2	-	.2	-	1.4
NORTH CAROLINA.....	.8	1.3	.1	-	2.8	-	1.1	-	.6
ARIZONA.....	.7	.8	.8	-	1.0	.6	.2	-	1.4
RHODE ISLAND.....	.7	2.0	.1	-	.7	-	.8	-	.4
LOUISIANA.....	.7	.4	.9	-	.7	-	.4	-	1.1
GEORGIA.....	.6	.8	.4	-	1.7	-	.5	-	1.3
INDIANA.....	.5	.5	.4	-	1.6	-	.2	-	.4
IDAHO.....	.4	.2	.4	-	1.1	.7	*	-	.6
WISCONSIN.....	.4	.2	*	.1	2.2	-	.2	-	.7
IDAHO.....	.4	.1	*	3.8	.1	2.6	.2	-	1.4
MISSISSIPPI.....	.4	1.0	.1	-	.4	-	.1	-	.5
OREGON.....	.3	.4	.1	-	1.1	-	.9	-	2.2
SOUTH CAROLINA.....	.3	.1	.2	2.4	.5	-	.2	-	.7
KENTUCKY.....	.3	.2	.3	-	.5	-	*	-	.6
WEST VIRGINIA.....	.3	.4	.1	-	.2	.8	*	-	.7
OKLAHOMA.....	.2	.3	.1	-	.5	-	.4	-	.6
NEW HAMPSHIRE.....	.1	.2	.1	-	.4	-	.1	-	.4
HAWAII.....	.1	.1	*	-	.5	-	.3	-	.4
ARKANSAS.....	.1	.3	*	-	.2	-	*	-	.8
MONTANA.....	.1	.2	.1	-	.2	-	*	-	3.4
ALASKA.....	.1	.2	*	-	.2	-	.2	-	2.6
NORTH DAKOTA.....	.1	.2	.1	-	.2	-	-	-	.8
VERMONT.....	.1	*	.1	-	.3	-	*	-	.4
DELAWARE.....	.1	*	*	1.6	.2	-	.1	-	*
NEBRASKA.....	.1	.1	*	-	.3	-	.2	-	.6
WYOMING.....	.1	.2	*	-	.2	-	-	-	.1
MAINE.....	.1	*	*	-	.1	-	.8	-	1.2
SOUTH DAKOTA.....	.1	.1	*	-	.1	.4	*	-	.7
OUTLYING AREAS.....	.1	.3	*	-	.3	.3	*	-	.3
OFFICES ABROAD.....	.2	.2	.2	-	.2	.3	*	-	-

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

* PERCENTAGE LESS THAN 0.05%.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-104B. PERCENT DISTRIBUTION OF FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO EACH STATE, BY PERFORMER: FISCAL YEAR 1982

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						STATE AND LOCAL GOVTS
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	
TOTAL.....	100.0%	24.8%	48.5%	3.9%	12.6%	5.5%	2.8%	1.4%	0.5%
CALIFORNIA.....	100.0	13.3	64.4	.8	7.1	9.0	1.8	3.3	.2
MARYLAND.....	100.0	69.1	21.5	.9	7.5	-	.7	*	.1
MASSACHUSETTS.....	100.0	8.6	55.6	-	18.6	5.5	8.8	2.6	.3
FLORIDA.....	100.0	43.3	51.4	-	4.6	-	.4	-	.3
NEW YORK.....	100.0	7.6	40.7	8.6	27.4	7.5	6.2	-	1.9
NEW MEXICO.....	100.0	19.4	15.7	32.4	2.1	29.0	1.2	-	.1
VIRGINIA.....	100.0	39.7	47.6	-	5.3	1.4	3.3	2.4	.3
PENNSYLVANIA.....	100.0	20.7	30.7	22.5	21.0	-	4.7	-	.4
TEXAS.....	100.0	22.1	54.1	-	20.7	-	2.4	-	.6
WASHINGTON.....	100.0	6.4	63.7	11.1	11.2	-	2.2	4.8	.6
OHIO.....	100.0	47.0	37.2	.7	11.3	-	3.5	-	.4
DISTRICT OF COLUMBIA.....	100.0	75.1	12.8	-	4.4	-	7.6	-	.1
MISSOURI.....	100.0	3.3	86.0	-	9.0	-	1.5	-	.2
NEW JERSEY.....	100.0	31.8	50.7	-	6.5	9.9	.6	-	.4
TENNESSEE.....	100.0	10.9	48.9	30.3	8.4	.2	1.2	-	.2
KANSAS.....	100.0	1.1	94.7	-	3.9	-	.2	-	.1
ALABAMA.....	100.0	57.5	31.4	-	8.4	-	2.5	-	.3
COLORADO.....	100.0	15.0	54.1	.1	13.7	5.8	1.5	9.1	.7
ILLINOIS.....	100.0	9.9	8.7	-	33.4	42.4	4.9	-	.8
CONNECTICUT.....	100.0	3.3	71.1	-	23.7	-	1.0	-	1.0
MINNESOTA.....	100.0	6.4	65.7	-	20.8	-	6.6	-	.5
MICHIGAN.....	100.0	11.9	49.7	-	32.2	-	4.6	-	1.7
NEVADA.....	100.0	16.8	80.8	-	1.9	-	.2	-	.9
UTAH.....	100.0	17.5	62.5	-	18.5	-	-	-	.4
NORTH CAROLINA.....	100.0	41.8	8.1	-	45.7	-	4.0	-	.4
ARIZONA.....	100.0	25.6	51.9	-	16.4	4.2	.8	-	1.0
RHODE ISLAND.....	100.0	73.4	9.8	-	13.4	-	3.1	-	.3
LOUISIANA.....	100.0	15.9	67.8	-	13.8	-	1.7	-	.8
GEORGIA.....	100.0	32.4	29.9	-	34.5	-	2.2	-	1.0
INDIANA.....	100.0	23.8	35.8	-	39.2	-	.9	-	.4
IOWA.....	100.0	9.8	44.6	-	34.6	10.1	.1	-	.7
WISCONSIN.....	100.0	14.6	5.0	1.3	76.7	-	1.5	-	1.0
IDAHO.....	100.0	8.0	3.8	41.5	4.1	39.4	1.3	-	1.9
MISSISSIPPI.....	100.0	69.6	15.0	-	14.0	-	.7	-	.7
OREGON.....	100.0	31.5	12.0	-	44.1	-	8.8	-	3.6
SOUTH CAROLINA.....	100.0	9.7	31.7	33.0	22.8	-	1.6	-	1.3
KENTUCKY.....	100.0	16.6	60.0	-	21.9	-	.4	-	1.1
WEST VIRGINIA.....	100.0	42.6	28.0	-	11.5	16.3	.1	-	1.5
OKLAHOMA.....	100.0	40.0	17.7	-	33.8	-	6.7	-	1.8
NEW HAMPSHIRE.....	100.0	30.9	32.0	-	34.0	-	1.8	-	1.3
HAWAII.....	100.0	24.0	17.4	-	49.7	-	7.2	-	1.7
ARKANSAS.....	100.0	59.2	13.1	-	24.5	-	.1	-	3.1
MONTANA.....	100.0	42.0	25.3	-	17.5	-	1.1	-	14.1
ALASKA.....	100.0	53.0	3.5	-	26.8	-	4.9	-	11.7
NORTH DAKOTA.....	100.0	46.0	31.7	-	18.5	-	-	-	3.8
VERMONT.....	100.0	2.8	56.6	-	38.2	-	.6	-	1.9
DELAWARE.....	100.0	2.8	9.0	62.6	23.8	-	1.6	-	.2
NEBRASKA.....	100.0	31.3	19.4	-	40.1	-	6.0	-	3.2
WYOMING.....	100.0	71.5	.8	-	24.7	-	-	-	.9
MAINE.....	100.0	15.2	21.8	-	22.7	-	31.5	-	8.9
SOUTH DAKOTA.....	100.0	27.4	.1	-	24.8	41.4	.1	-	6.2
OUTLYING AREAS.....	100.0	55.3	.3	-	29.8	13.1	.3	-	1.2
OFFICES ABROAD.....	100.0	25.2	46.1	-	18.1	10.3	.3	-	-

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

* PERCENTAGE LESS THAN 0.05%.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-105. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY STATE AND AGENCY: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	DEPT OF AGRI- CULTURE	DEPT OF COMMERCE	DEPT OF DEFENSE	DEPT OF ENERGY	DEPT OF HEALTH & HUMAN SERVICES	DEPT OF THE INTERI- OR	DEPT OF TRANS- POR- TATION	ENVIRON- MENTAL PROTEC- TION AGENCY	NATIONAL AERO- NAUTICS & SPACE ADMIN	NATIONAL SCIENCE FOUNDA- TION
TOTAL.....	35,361,579	795,198	335,984	20,545,540	4,696,719	3,914,111	380,638	310,083	335,089	3,073,667	974,550
CALIFORNIA.....	8,888,300	49,298	14,292	6,141,172	923,106	431,276	38,942	29,123	36,075	1,071,856	153,160
MARYLAND.....	2,850,160	71,272	107,860	1,361,326	40,871	919,929	12,600	30,971	10,416	278,738	16,177
MASSACHUSETTS.....	2,775,192	6,426	14,259	2,134,654	108,290	310,409	7,654	35,850	17,781	58,418	81,451
FLORIDA.....	1,776,426	19,188	26,050	1,292,802	3,530	41,588	4,570	5,386	8,700	360,601	14,011
NEW YORK.....	1,692,498	23,690	5,116	836,415	264,230	410,936	6,566	11,904	7,469	29,184	96,988
NEW MEXICO.....	1,322,595	3,579	646	449,771	831,478	9,509	6,159	1,223	544	15,101	4,585
VIRGINIA.....	1,268,063	6,579	5,897	923,727	40,847	52,917	26,870	23,521	14,291	162,647	10,767
PENNSYLVANIA.....	1,131,493	24,620	407	434,953	380,590	178,347	20,549	9,770	6,319	39,342	36,596
TEXAS.....	1,054,280	38,484	4,401	447,898	48,770	141,882	8,963	25,985	15,194	299,725	22,978
WASHINGTON.....	1,038,857	14,819	32,773	637,558	221,027	81,844	13,048	5,900	4,737	5,636	21,515
OHIO.....	1,024,807	11,043	810	619,490	113,328	94,412	4,115	10,725	38,851	117,067	14,965
DISTRICT OF COLUMBIA.....	954,649	91,277	16,267	350,335	89,072	83,851	20,955	42,554	18,675	113,751	127,912
MISSOURI.....	911,311	11,118	612	800,411	2,292	70,158	10,937	2,353	2,092	3,896	7,442
NEW JERSEY.....	887,944	3,288	13,479	668,068	120,570	27,706	3,418	11,601	2,046	12,188	25,580
TENNESSEE.....	702,276	7,185	499	281,428	339,600	50,671	2,336	2,306	7,983	4,038	6,230
KANSAS.....	637,664	6,588	34	605,579	2,220	13,350	1,043	537	154	4,579	3,580
ALABAMA.....	561,543	9,748	1,336	306,457	11,219	41,810	5,756	2,092	1,744	180,254	1,127
COLORADO.....	556,596	14,590	43,460	253,498	78,759	36,744	33,608	12,400	4,930	32,101	46,506
ILLINOIS.....	543,023	30,394	875	48,860	260,377	110,762	5,583	4,625	7,060	9,180	45,307
CONNECTICUT.....	439,554	3,107	1,710	278,979	11,512	84,904	1,455	5,831	2,849	36,772	12,433
MINNESOTA.....	378,616	13,225	345	235,205	17,507	76,173	11,698	368	8,944	4,353	10,798
MICHIGAN.....	376,701	11,286	5,383	210,822	17,273	81,750	8,805	6,837	3,331	9,134	22,080
NEVADA.....	376,280	1,931	87	46,487	299,376	553	9,796	154	15,788	990	1,118
UTAH.....	287,866	7,964	70	180,559	6,671	24,855	11,787	304	786	46,642	8,228
NORTH CAROLINA.....	272,671	17,788	3,229	37,501	3,610	133,947	2,961	838	55,843	5,462	11,492
ARIZONA.....	264,470	13,430	169	172,639	13,383	20,852	5,462	2,126	886	13,879	21,644
RHODE ISLAND.....	242,130	1,129	2,112	199,193	2,618	13,062	850	416	6,481	948	15,321
LOUISIANA.....	236,791	34,926	2,287	30,196	40,622	24,257	2,628	2,043	1,390	96,118	2,324
GEORGIA.....	217,263	30,596	942	72,869	24,529	60,441	3,586	1,325	6,566	8,060	8,349
INDIANA.....	186,172	7,785	494	106,013	8,126	28,884	1,909	2,141	653	6,425	23,742
IOWA.....	136,270	18,718	265	62,919	13,355	30,552	1,906	298	397	3,745	4,115
WISCONSIN.....	129,446	22,300	2,654	9,209	8,510	58,817	3,313	497	1,788	4,333	18,025
IDAHO.....	126,959	9,460	126	20	109,191	525	6,846	126	219	130	316
MISSISSIPPI.....	125,701	23,561	5,992	71,349	1,981	7,709	1,324	877	480	11,010	1,418
OREGON.....	106,319	17,826	3,209	4,620	15,510	30,051	12,717	718	8,319	1,899	11,450
SOUTH CAROLINA.....	98,732	10,684	2,150	3,906	63,018	11,717	2,133	462	370	158	4,134
KENTUCKY.....	97,163	8,006	73	10,358	54,897	15,582	2,105	735	2,646	941	1,820
WEST VIRGINIA.....	91,015	7,759	29	25,554	24,394	11,166	5,583	388	390	3	15,749
OKLAHOMA.....	65,554	9,215	2,303	11,025	8,403	9,619	1,701	9,663	7,098	3,918	2,609
NEW HAMPSHIRE.....	50,816	3,037	354	25,984	4,272	8,732	1,777	209	553	3,169	2,729
HAWAII.....	44,544	3,668	5,107	13,729	2,347	7,332	2,893	338	162	4,313	4,655
ARKANSAS.....	43,485	6,780	132	904	4,822	25,318	1,879	1,305	770	290	1,285
MONTANA.....	42,683	10,138	146	1,187	10,656	5,744	11,367	198	1,368	107	1,772
ALASKA.....	40,003	4,853	4,554	7,932	759	329	13,401	360	156	1,570	6,089
NORTH DAKOTA.....	36,460	14,449	117	11,580	3,082	1,386	5,221	253	-	10	362
VERMONT.....	35,731	2,278	81	20,589	27	10,624	872	59	114	270	817
DELAWARE.....	34,582	2,419	565	2,657	22,014	1,927	579	248	148	842	3,183
NEBRASKA.....	31,988	13,263	36	6,586	1,473	6,029	1,159	333	174	244	2,691
KYDING.....	25,380	3,553	61	527	12,917	611	4,879	278	474	327	1,753
MAINE.....	23,900	3,462	914	4,303	834	7,159	1,992	1,118	815	476	2,827
SOUTH DAKOTA.....	18,965	4,546	111	2,623	8,031	787	1,904	108	70	255	530
OUTLYING AREAS.....	40,726	7,044	1,057	20,529	823	4,613	478	294	-	130	5,758
OFFICES ABROAD.....	58,966	1,826	47	42,585	-	-	-	9	-	8,442	6,057

NOTE: THE OBLIGATIONS OF THE TEN MAJOR R&D SUPPORTING AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 97 PERCENT OF TOTAL FEDERAL R&D OBLIGATIONS IN FY 1982.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-105A. PERCENT DISTRIBUTION OF FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT OF EACH AGENCY,
BY STATE: FISCAL YEAR 1982

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	DEPT OF AGRICUL- TURE	DEPT OF COMMERCE	DEPT OF DEFENSE	DEPT OF ENERGY	DEPT OF HEALTH & HUMAN SERVICES	DEPT OF THE INTERIOR	DEPT OF TRANS- POR- TATION	ENVIRON- MENTAL PROTEC- TION AGENCY	NATIONAL AERO- NAUTICS & SPACE ADMIN	NATIONAL SCIENCE FOUNDA- TION
TOTAL.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
CALIFORNIA.....	25.1	6.2	4.3	29.9	19.7	11.0	10.2	9.4	10.8	34.9	15.7
MARYLAND.....	8.1	9.0	32.1	6.6	.9	23.5	3.3	10.0	3.1	9.1	1.7
MASSACHUSETTS.....	7.8	.8	4.2	10.4	2.3	7.9	2.0	11.6	5.3	1.9	8.4
FLORIDA.....	5.0	2.4	7.6	6.3	.1	1.1	1.2	1.7	2.6	11.7	1.4
NEW YORK.....	4.8	2.0	1.5	4.1	5.6	10.5	1.7	3.8	2.2	.9	10.0
NEW MEXICO.....	3.7	.5	.2	2.2	17.7	.2	1.6	.4	.2	.5	.5
VIRGINIA.....	3.6	.8	1.8	4.5	.9	1.4	7.1	7.6	4.3	5.3	1.1
PENNSYLVANIA.....	3.2	3.1	.1	2.1	8.1	4.6	5.4	3.2	1.9	1.3	3.8
TEXAS.....	3.0	4.8	1.3	2.2	1.0	3.6	2.4	8.4	4.5	9.8	2.4
WASHINGTON.....	2.9	1.9	9.8	3.1	4.7	2.1	3.4	1.9	1.4	.2	2.2
OHIO.....	2.9	1.4	.2	3.0	2.4	2.4	1.1	3.5	11.6	3.8	1.5
DISTRICT OF COLUMBIA.....	2.7	11.5	4.8	1.7	1.9	2.1	5.5	13.7	5.6	3.7	13.1
MISSOURI.....	2.6	1.4	.2	3.9	*	1.8	2.9	.8	.6	.1	.8
NEW JERSEY.....	2.5	.4	4.0	3.3	2.6	.7	.9	5.7	.6	.4	2.6
TENNESSEE.....	2.0	.9	.1	1.4	7.2	1.3	.6	.7	2.4	.1	.6
KANSAS.....	1.8	.8	*	2.9	*	.3	.3	.2	*	.1	.4
ALABAMA.....	1.6	1.2	4	1.5	.2	1.1	1.5	.7	.5	5.9	.1
COLORADO.....	1.6	1.8	12.9	1.2	1.7	.9	8.8	4.0	1.5	1.0	4.8
ILLINOIS.....	1.5	3.8	.3	.3	5.5	2.8	1.5	1.5	2.1	.3	4.6
CONNECTICUT.....	1.2	.4	.5	1.4	.2	2.2	.4	1.9	.9	1.2	1.3
MINNESOTA.....	1.1	1.7	.1	1.1	.4	1.9	3.1	.1	2.7	.1	1.1
MICHIGAN.....	1.1	1.4	1.6	1.0	.4	2.1	2.3	2.2	1.0	.3	2.3
NEVADA.....	1.1	.2	*	.2	6.4	*	2.6	*	4.7	*	.1
UTAH.....	.8	1.0	*	.9	.1	.6	3.1	.1	.2	1.5	.8
NORTH CAROLINA.....	.8	2.2	1.0	.2	.1	3.4	.8	.3	16.7	.2	1.2
ARIZONA.....	.7	1.7	.1	.8	.3	.5	1.4	.7	.3	.5	2.2
RHODE ISLAND.....	.7	.1	.6	1.0	.1	.3	.2	.1	1.9	*	1.6
LOUISIANA.....	.7	4.4	.7	.1	.9	.6	.7	.7	.4	3.1	.2
GEORGIA.....	.6	3.8	.3	.4	.5	1.5	.9	.4	2.0	.3	.9
INDIANA.....	.5	1.0	.1	.5	.2	.7	.5	.7	.2	.2	2.4
IDAHO.....	.4	2.4	.1	.3	.3	.8	.5	.1	.1	.1	.4
WISCONSIN.....	.4	2.8	.8	*	.2	1.5	.9	.2	.5	.1	1.8
IDAHO.....	.4	1.2	*	*	2.3	*	1.8	*	.1	*	*
MISSISSIPPI.....	.4	3.0	1.8	.3	*	.2	.3	.3	.1	.4	.1
OREGON.....	.3	2.2	1.0	*	.3	.8	3.3	.2	2.5	.1	1.2
SOUTH CAROLINA.....	.3	1.3	.6	*	1.3	.3	.6	.1	.1	*	.4
KENTUCKY.....	.3	1.0	*	.1	1.2	.4	.6	.2	.8	*	.2
WEST VIRGINIA.....	.3	1.0	*	.1	.5	.3	1.5	.1	.1	*	1.6
OKLAHOMA.....	.2	1.2	.7	.1	.2	.2	.4	3.1	2.1	.1	.3
NEW HAMPSHIRE.....	.1	.4	.1	.1	.1	.2	.5	.1	.2	.1	.3
HAWAII.....	.1	.5	1.5	.1	*	.2	.8	.1	*	.1	.5
ARKANSAS.....	.1	.9	*	*	.1	.6	.5	.4	.2	*	.1
MONTANA.....	.1	1.3	*	*	.2	.1	3.0	.1	.4	*	.2
ALASKA.....	.1	.6	1.4	*	*	*	3.5	.1	*	.1	.6
NORTH DAKOTA.....	.1	1.8	*	.1	.1	*	1.4	.1	-	*	*
VERMONT.....	.1	.3	*	.1	*	.3	.2	*	*	*	.1
DELAWARE.....	.1	.3	.2	*	.5	*	.2	.1	*	*	.3
NEBRASKA.....	.1	1.7	*	*	*	.2	.3	.1	.1	*	.3
WYOMING.....	.1	.4	*	*	.3	*	1.3	.1	.1	*	.2
MAINE.....	.1	.4	.3	*	*	.2	.5	.4	.2	*	.3
SOUTH DAKOTA.....	.1	.6	*	*	.2	*	.5	*	*	*	.1
OUTLYING AREAS.....	.1	.9	.3	.1	*	.1	.1	*	-	*	.6
OFFICES ABROAD.....	.2	.2	*	.2	-	-	-	*	-	.3	.6

* PERCENTAGE LESS THAN 0.05%.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-105B. PERCENT DISTRIBUTION OF FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT OF EACH STATE,
BY AGENCY: FISCAL YEAR 1982

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	DEPT OF AGRICUL- TURE	DEPT OF COMMERCE	DEPT OF DEFENSE	DEPT OF ENERGY	DEPT OF HEALTH & HUMAN SERVICES	DEPT OF THE INTERIOR	DEPT OF TRANS- POR- TATION	ENVIRON- MENTAL PROTEC- TION AGENCY	NATIONAL AERO- NAUTICS & SPACE ADMIN	NATIONAL SCIENCE FOUNDA- TION
TOTAL.....	100.0%	2.2%	1.0%	58.1%	13.3%	11.1%	1.1%	0.9%	0.9%	8.7%	2.8%
CALIFORNIA.....	100.0	.6	.2	69.1	10.4	4.9	.4	.3	.4	12.1	1.7
MARYLAND.....	100.0	2.5	3.8	47.8	1.4	32.3	.4	1.1	.4	9.8	.6
MASSACHUSETTS.....	100.0	.2	.5	76.9	3.9	11.2	.3	1.3	.6	2.1	2.9
FLORIDA.....	100.0	1.1	1.5	72.8	.2	2.3	.3	.3	.5	20.3	.8
NEW YORK.....	100.0	1.4	.3	49.4	15.6	24.3	.4	.7	.4	1.7	5.7
NEW MEXICO.....	100.0	.3	*	34.0	62.9	.7	.5	.1	*	1.1	.3
VIRGINIA.....	100.0	.5	.5	72.8	3.2	4.2	2.1	1.9	1.1	12.8	.8
PENNSYLVANIA.....	100.0	2.2	*	38.4	33.6	15.8	1.8	.9	.6	3.5	3.2
TEXAS.....	100.0	3.7	.4	42.5	4.6	13.5	.9	2.5	1.4	28.4	2.2
WASHINGTON.....	100.0	1.4	3.2	61.4	21.3	7.9	1.3	.6	.5	.5	2.1
DHID.....	100.0	1.1	.1	60.4	11.1	9.2	.4	1.0	3.8	11.4	1.5
DISTRICT OF COLUMBIA.....	100.0	9.6	1.7	36.7	9.3	8.8	2.2	4.5	2.0	11.9	13.4
MISSOURI.....	100.0	1.2	.1	87.8	.3	7.7	1.2	.3	.2	.4	.8
NEW JERSEY.....	100.0	.4	1.5	75.2	13.6	3.1	.4	1.3	.2	1.4	2.9
TENNESSEE.....	100.0	1.0	.1	40.1	48.4	7.2	.3	.2	1.1	.6	.9
KANSAS.....	100.0	1.0	*	95.0	.3	2.1	.2	.1	*	.7	.6
ALABAMA.....	100.0	1.7	.2	54.6	2.0	7.4	1.0	.4	.3	32.1	.2
COLORADO.....	100.0	2.6	7.8	45.5	14.2	6.6	6.0	2.2	.9	5.8	8.4
ILLINOIS.....	100.0	5.6	.2	12.7	47.9	20.4	1.0	.9	1.3	1.7	8.3
CONNECTICUT.....	100.0	.7	.4	63.5	2.6	19.3	.3	1.3	.6	8.4	2.8
MINNESOTA.....	100.0	3.5	.1	62.1	4.6	20.1	3.1	.1	2.4	1.1	2.9
MICHIGAN.....	100.0	3.0	1.4	56.0	4.6	21.7	2.3	1.8	.9	2.4	5.9
NEVADA.....	100.0	.5	*	12.4	79.6	.1	2.6	*	4.2	.3	.3
UTAH.....	100.0	2.8	*	62.7	2.3	8.6	4.1	.1	.3	16.2	2.9
NORTH CAROLINA.....	100.0	6.5	1.2	13.8	1.3	49.1	1.1	.3	20.5	2.0	4.2
ARIZONA.....	100.0	5.1	.1	65.3	5.1	7.9	2.1	.8	.3	5.2	8.2
RHODE ISLAND.....	100.0	.5	.9	82.3	1.1	5.4	.4	.2	2.7	.4	6.3
LOUISIANA.....	100.0	14.7	1.0	12.8	17.2	10.2	1.1	.9	.6	40.6	1.0
GEORGIA.....	100.0	14.1	.4	33.5	11.3	27.8	1.7	.6	3.0	3.7	3.8
INDIANA.....	100.0	4.2	.3	56.9	4.4	15.5	1.0	1.2	.4	3.5	12.8
IOWA.....	100.0	13.7	.2	46.2	9.8	22.4	1.4	.2	.3	2.7	3.0
WISCONSIN.....	100.0	17.2	2.1	7.1	6.6	45.4	2.6	.4	1.4	3.3	13.9
IDAH0.....	100.0	7.5	.1	*	86.0	.4	5.4	.1	.2	.1	.2
MISSISSIPPI.....	100.0	18.7	4.8	56.8	1.6	6.1	1.1	.7	.4	8.8	1.1
OREGON.....	100.0	16.8	3.0	4.3	14.6	28.3	12.0	.7	7.8	1.8	10.8
SOUTH CAROLINA.....	100.0	10.8	2.2	4.0	63.8	11.9	2.2	.5	.4	.2	4.2
KENTUCKY.....	100.0	8.2	.1	10.7	56.5	16.0	2.2	.8	2.7	1.0	1.9
WEST VIRGINIA.....	100.0	8.5	*	28.1	26.8	12.3	6.1	.4	.4	*	17.3
OKLAHOMA.....	100.0	14.1	3.5	16.8	12.8	14.7	2.6	14.7	10.8	6.0	4.0
NEW HAMPSHIRE.....	100.0	6.0	.7	51.1	8.4	17.2	3.5	.4	1.1	6.2	5.4
HAWAII.....	100.0	8.2	11.5	30.8	5.3	16.5	6.5	.8	.4	9.7	10.5
ARKANSAS.....	100.0	15.6	.3	2.1	11.1	58.2	4.3	3.0	1.8	.7	3.0
MONTANA.....	100.0	23.8	.3	2.8	25.0	13.5	26.6	.5	3.2	.3	4.2
ALASKA.....	100.0	12.1	11.4	19.8	1.9	.8	33.5	.9	.4	3.9	15.2
NORTH DAKOTA.....	100.0	39.6	.3	31.8	8.5	3.8	14.3	.7	-	*	1.0
VERMONT.....	100.0	6.4	.2	57.6	.1	29.7	2.4	.2	.3	.8	2.3
DELAWARE.....	100.0	7.0	1.6	7.7	63.7	5.6	1.7	.7	.4	2.4	9.2
NEBRASKA.....	100.0	41.5	.1	20.6	4.6	18.8	3.6	1.0	.5	.8	8.4
WYOMING.....	100.0	14.0	.2	2.1	50.9	2.4	19.2	1.1	1.9	1.3	6.9
MAINE.....	100.0	14.5	3.8	18.0	3.5	30.0	8.3	4.7	3.4	2.0	11.8
SOUTH DAKOTA.....	100.0	24.0	.6	13.8	42.3	4.1	10.0	.6	.4	1.3	2.8
OUTLYING AREAS.....	100.0	17.3	2.6	50.4	2.0	11.3	1.2	.7	-	.3	14.1
OFFICES ABROAD.....	100.0	3.1	.1	72.2	-	-	-	*	-	14.3	10.3

* PERCENTAGE LESS THAN 0.05%.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-106. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						STATE AND LOCAL GOVTS
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS- TRIAL FIRMS	UNIVER- SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON- PROFIT INSTITU- TIONS	FFRDCS ADMIN BY NON- PROFIT INSTITU- TIONS	
TOTAL	35,361,579	8,784,276	17,135,806	1,373,871	4,444,001	1,943,395	1,000,613	500,156	179,461
DEPARTMENT OF AGRICULTURE	795,198	531,448	2,501	100	254,970	105	3,041	-	3,033
DEPARTMENT OF COMMERCE	335,984	241,757	20,493	-	51,266	952	14,245	101	7,170
DEPARTMENT OF DEFENSE	20,545,540	5,139,164	13,794,516	148,314	663,615	226,248	188,533	384,995	155
DEPARTMENT OF ENERGY	4,696,719	175,611	1,450,741	1,193,779	277,083	1,438,696	46,093	113,789	927
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	3,914,111	946,408	122,963	28,963	2,175,914	18,793	560,222	329	60,519
DEPARTMENT OF THE INTERIOR	380,638	260,976	28,876	310	34,114	57	2,505	230	53,570
DEPARTMENT OF TRANSPORTATION	310,083	75,654	155,067	-	18,633	3,975	17,859	-	38,895
ENVIRONMENTAL PROTECTION AGENCY	335,089	129,453	102,635	-	67,798	-	23,696	-	11,507
NATIONAL AERONAUTICS AND SPACE ADMIN ..	3,073,667	1,165,551	1,432,593	-	185,630	182,519	104,511	417	2,446
NATIONAL SCIENCE FOUNDATION	974,550	118,254	25,421	2,405	714,978	72,050	39,908	295	1,239
NEW ENGLAND	3,567,323	451,711	1,921,801	-	687,785	153,977	263,567	72,416	16,066
DEPARTMENT OF AGRICULTURE	19,439	6,648	-	-	11,675	-	193	-	923
DEPARTMENT OF COMMERCE	19,430	5,517	2,915	-	5,006	-	1,260	-	732
DEPARTMENT OF DEFENSE	2,663,702	388,959	1,748,537	-	230,415	150,024	73,315	72,416	36
DEPARTMENT OF ENERGY	127,553	750	69,864	-	54,089	-	2,850	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	434,892	2,491	25,707	-	252,268	-	146,801	-	7,625
DEPARTMENT OF THE INTERIOR	14,600	4,687	5,189	-	1,698	-	-	-	3,026
DEPARTMENT OF TRANSPORTATION	43,483	27,808	9,285	-	800	3,595	-	-	1,995
ENVIRONMENTAL PROTECTION AGENCY	28,593	4,987	16,512	-	4,020	-	1,345	-	1,729
NATIONAL AERONAUTICS AND SPACE ADMIN ..	100,053	5,508	41,957	-	20,784	358	31,444	-	-
NATIONAL SCIENCE FOUNDATION	115,578	356	1,835	-	107,030	-	6,357	-	-
CONNECTICUT	439,554	14,501	312,364	-	104,241	-	4,249	-	4,199
DEPARTMENT OF AGRICULTURE	3,107	1,416	-	-	963	-	-	-	728
DEPARTMENT OF COMMERCE	1,710	1,498	-	-	102	-	-	-	110
DEPARTMENT OF DEFENSE	278,979	8,470	265,294	-	5,215	-	-	-	-
DEPARTMENT OF ENERGY	11,512	-	5,095	-	4,417	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	84,906	-	514	-	78,280	-	3,931	-	2,181
DEPARTMENT OF THE INTERIOR	1,455	763	131	-	110	-	-	-	451
DEPARTMENT OF TRANSPORTATION	5,331	2,259	3,165	-	92	-	-	-	315
ENVIRONMENTAL PROTECTION AGENCY	2,849	-	2,216	-	-	-	219	-	414
NATIONAL AERONAUTICS AND SPACE ADMIN ..	36,772	95	35,836	-	835	-	6	-	-
NATIONAL SCIENCE FOUNDATION	12,433	-	113	-	12,227	-	93	-	-
MAINE	23,900	3,622	5,208	-	5,415	-	7,528	-	2,127
DEPARTMENT OF AGRICULTURE	3,462	1,262	-	-	2,198	-	-	-	2
DEPARTMENT OF COMMERCE	914	382	-	-	105	-	224	-	203
DEPARTMENT OF DEFENSE	4,303	1,158	3,044	-	101	-	-	-	-
DEPARTMENT OF ENERGY	834	-	374	-	207	-	253	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	7,159	-	-	-	638	-	5,707	-	814
DEPARTMENT OF THE INTERIOR	1,992	820	60	-	181	-	-	-	931
DEPARTMENT OF TRANSPORTATION	1,118	-	969	-	12	-	-	-	137
ENVIRONMENTAL PROTECTION AGENCY	815	-	728	-	47	-	-	-	40
NATIONAL AERONAUTICS AND SPACE ADMIN ..	476	-	8	-	60	-	408	-	-
NATIONAL SCIENCE FOUNDATION	2,827	-	25	-	1,866	-	936	-	-
MASSACHUSETTS	2,775,192	239,069	1,544,034	-	514,832	153,977	243,096	72,416	7,768
DEPARTMENT OF AGRICULTURE	6,426	1,753	-	-	4,289	-	191	-	193
DEPARTMENT OF COMMERCE	14,259	7,346	2,753	-	2,878	-	1,036	-	246
DEPARTMENT OF DEFENSE	2,134,654	194,426	1,425,175	-	220,019	150,024	72,594	72,416	-
DEPARTMENT OF ENERGY	108,290	550	60,493	-	44,738	-	2,509	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	310,409	2,491	25,114	-	148,349	-	129,988	-	4,467
DEPARTMENT OF THE INTERIOR	7,654	1,462	4,736	-	894	-	-	-	562
DEPARTMENT OF TRANSPORTATION	35,850	25,496	5,040	-	694	3,595	-	-	1,025
ENVIRONMENTAL PROTECTION AGENCY	17,781	-	13,373	-	2,017	-	1,116	-	1,275
NATIONAL AERONAUTICS AND SPACE ADMIN ..	58,418	5,301	5,706	-	16,161	358	30,892	-	-
NATIONAL SCIENCE FOUNDATION	81,451	244	1,644	-	74,793	-	4,770	-	-
NEW HAMPSHIRE	50,816	15,720	16,246	-	17,289	-	902	-	659
DEPARTMENT OF AGRICULTURE	3,037	1,523	-	-	1,514	-	-	-	-
DEPARTMENT OF COMMERCE	354	178	3	-	75	-	-	-	98
DEPARTMENT OF DEFENSE	25,984	12,581	11,998	-	707	-	678	-	20
DEPARTMENT OF ENERGY	4,272	200	3,607	-	465	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	8,732	-	-	-	8,653	-	55	-	24
DEPARTMENT OF THE INTERIOR	1,777	1,003	224	-	160	-	-	-	388
DEPARTMENT OF TRANSPORTATION	209	53	26	-	1	-	-	-	129
ENVIRONMENTAL PROTECTION AGENCY	553	-	195	-	358	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN ..	3,169	70	138	-	2,821	-	140	-	-
NATIONAL SCIENCE FOUNDATION	2,729	112	53	-	2,535	-	29	-	-

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TABLE C-106. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						STATE AND LOCAL GOVTS
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS- TRIAL FIRMS	UNIVER- SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON- PROFIT INSTITU- TIONS	FFRDCS ADMIN BY NON- PROFIT INSTITU- TIONS	
RHODE ISLAND									
TOTAL	242,130	177,806	23,722	-	32,371	-	7,593	-	638
DEPARTMENT OF AGRICULTURE	1,129	-	-	-	1,127	-	-	-	-
DEPARTMENT OF COMMERCE	2,112	63	159	-	1,846	-	2	-	44
DEPARTMENT OF DEFENSE	199,193	172,324	22,913	-	3,913	-	43	-	-
DEPARTMENT OF ENERGY	2,618	-	295	-	2,235	-	88	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	13,062	-	79	-	5,998	-	6,921	-	64
DEPARTMENT OF THE INTERIOR	850	432	-	-	222	-	-	-	196
DEPARTMENT OF TRANSPORTATION	416	-	81	-	1	-	-	-	334
ENVIRONMENTAL PROTECTION AGENCY	6,481	4,987	-	-	1,484	-	10	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN ..	948	-	195	-	753	-	-	-	-
NATIONAL SCIENCE FOUNDATION	15,321	-	-	-	14,792	-	529	-	-
VERMONT									
TOTAL	35,731	993	20,227	-	13,637	-	199	-	675
DEPARTMENT OF AGRICULTURE	2,278	694	-	-	1,584	-	-	-	-
DEPARTMENT OF COMMERCE	81	50	-	-	-	-	-	-	31
DEPARTMENT OF DEFENSE	20,589	-	20,113	-	460	-	-	-	16
DEPARTMENT OF ENERGY	27	-	-	-	27	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	10,624	-	-	-	10,350	-	199	-	75
DEPARTMENT OF THE INTERIOR	872	207	36	-	131	-	-	-	498
DEPARTMENT OF TRANSPORTATION	59	-	4	-	-	-	-	-	55
ENVIRONMENTAL PROTECTION AGENCY	114	-	-	-	114	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN ..	270	42	74	-	154	-	-	-	-
NATIONAL SCIENCE FOUNDATION	817	-	-	-	817	-	-	-	-
MIDDLE ATLANTIC									
TOTAL	3,711,935	645,317	1,487,492	399,484	759,757	215,987	163,294	-	40,604
DEPARTMENT OF AGRICULTURE	51,598	30,060	35	-	20,552	105	734	-	112
DEPARTMENT OF COMMERCE	19,002	10,444	660	-	6,854	51	582	-	411
DEPARTMENT OF DEFENSE	1,939,436	524,130	1,179,929	137,350	78,033	10,000	9,993	-	1
DEPARTMENT OF ENERGY	765,390	37,053	219,101	262,134	43,836	201,643	1,578	-	45
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	616,989	3,544	5,615	-	439,820	3,581	133,684	-	30,745
DEPARTMENT OF THE INTERIOR	30,533	22,384	2,667	-	2,757	-	393	-	2,332
DEPARTMENT OF TRANSPORTATION	33,275	10,378	14,073	-	2,046	156	201	-	6,421
ENVIRONMENTAL PROTECTION AGENCY	15,834	-	6,047	-	7,480	-	2,007	-	300
NATIONAL AERONAUTICS AND SPACE ADMIN ..	80,714	7,324	49,072	-	17,499	-	6,766	-	53
NATIONAL SCIENCE FOUNDATION	159,164	-	10,293	-	140,880	451	7,356	-	184
NEW JERSEY									
TOTAL	887,944	282,111	450,569	-	57,931	88,316	5,226	-	3,791
DEPARTMENT OF AGRICULTURE	3,288	85	-	-	3,111	-	68	-	24
DEPARTMENT OF COMMERCE	13,479	9,080	427	-	3,579	-	261	-	132
DEPARTMENT OF DEFENSE	668,068	261,010	391,238	-	5,422	9,667	731	-	-
DEPARTMENT OF ENERGY	120,570	-	36,870	-	5,051	78,649	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	27,706	328	440	-	21,819	-	2,860	-	2,259
DEPARTMENT OF THE INTERIOR	3,418	1,873	705	-	229	-	-	-	611
DEPARTMENT OF TRANSPORTATION	11,601	8,234	2,356	-	246	-	-	-	765
ENVIRONMENTAL PROTECTION AGENCY	2,046	-	1,309	-	614	-	123	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN ..	12,188	1,501	7,967	-	2,610	-	110	-	-
NATIONAL SCIENCE FOUNDATION	25,580	-	9,257	-	15,250	-	1,073	-	-
NEW YORK									
TOTAL	1,692,498	128,801	689,475	145,047	464,443	127,671	104,645	-	32,416
DEPARTMENT OF AGRICULTURE	23,690	14,265	35	-	8,670	105	550	-	65
DEPARTMENT OF COMMERCE	5,116	1,355	209	-	3,014	51	296	-	191
DEPARTMENT OF DEFENSE	836,415	91,066	649,435	63,913	23,275	333	8,392	-	1
DEPARTMENT OF ENERGY	264,230	8,042	19,543	81,134	31,196	122,994	1,276	-	45
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	410,936	2,891	4,840	-	290,462	3,581	81,726	-	27,436
DEPARTMENT OF THE INTERIOR	6,566	3,741	129	-	1,619	-	-	-	1,077
DEPARTMENT OF TRANSPORTATION	11,904	1,768	6,000	-	886	156	30	-	3,064
ENVIRONMENTAL PROTECTION AGENCY	7,469	-	734	-	4,710	-	1,725	-	300
NATIONAL AERONAUTICS AND SPACE ADMIN ..	29,184	5,673	8,013	-	9,660	-	5,785	-	53
NATIONAL SCIENCE FOUNDATION	96,988	-	537	-	90,951	451	4,865	-	184
PENNSYLVANIA									
TOTAL	1,131,493	234,405	347,448	254,437	237,383	-	53,423	-	4,397
DEPARTMENT OF AGRICULTURE	24,620	15,710	-	-	8,771	-	116	-	23
DEPARTMENT OF COMMERCE	407	9	24	-	261	-	25	-	88
DEPARTMENT OF DEFENSE	434,953	172,054	139,256	73,437	49,336	-	870	-	-
DEPARTMENT OF ENERGY	380,590	29,011	162,688	181,000	7,589	-	302	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	178,347	325	335	-	127,539	-	49,098	-	1,050
DEPARTMENT OF THE INTERIOR	20,549	16,770	1,833	-	909	-	393	-	644
DEPARTMENT OF TRANSPORTATION	9,770	376	5,717	-	914	-	171	-	2,592
ENVIRONMENTAL PROTECTION AGENCY	6,319	-	4,004	-	2,156	-	159	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN ..	39,342	150	33,092	-	5,229	-	871	-	-
NATIONAL SCIENCE FOUNDATION	36,596	-	499	-	34,679	-	1,418	-	-

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TABLE C-106. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						STATE AND LOCAL GOVTS
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS- TRIAL FIRMS	UNIVER- SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON- PROFIT INSTITU- TIONS	FFRDCS ADMIN BY NON- PROFIT INSTITU- TIONS	
EAST NORTH CENTRAL									
TOTAL	2,260,149	642,647	688,091	9,070	590,291	230,380	82,780	-	16,890
DEPARTMENT OF AGRICULTURE	82,808	49,167	38	-	32,881	-	649	-	73
DEPARTMENT OF COMMERCE	10,216	4,315	446	-	4,576	120	463	-	296
DEPARTMENT OF DEFENSE	1,014,394	429,190	512,724	-	53,187	165	19,128	-	-
DEPARTMENT OF ENERGY	407,614	4,575	126,293	7,427	38,280	229,403	1,636	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	374,626	19,527	9,276	1,643	293,749	489	46,035	-	3,907
DEPARTMENT OF THE INTERIOR	23,725	14,587	1,326	-	1,809	-	25	-	5,978
DEPARTMENT OF TRANSPORTATION	24,825	4,843	30,125	-	5,471	149	731	-	3,506
ENVIRONMENTAL PROTECTION AGENCY	51,683	23,012	8,689	-	12,631	-	4,583	-	2,768
NATIONAL AERONAUTICS AND SPACE ADMIN ..	146,139	93,431	18,845	-	26,587	8	6,958	-	310
NATIONAL SCIENCE FOUNDATION	124,119	-	329	-	121,120	46	2,572	-	52
ILLINOIS									
TOTAL	543,023	53,489	47,014	-	181,456	230,380	26,579	-	4,105
DEPARTMENT OF AGRICULTURE	30,394	23,023	-	-	7,339	-	26	-	6
DEPARTMENT OF COMMERCE	875	28	-	-	649	120	-	-	78
DEPARTMENT OF DEFENSE	68,860	22,006	26,723	-	15,392	165	4,574	-	-
DEPARTMENT OF ENERGY	260,377	3,972	14,310	-	11,896	229,403	796	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	110,762	1,059	709	-	89,634	489	16,971	-	1,900
DEPARTMENT OF THE INTERIOR	5,583	2,973	1,049	-	382	-	-	-	1,159
DEPARTMENT OF TRANSPORTATION	4,625	105	2,701	-	432	149	731	-	507
ENVIRONMENTAL PROTECTION AGENCY	7,060	-	61	-	5,454	-	1,090	-	455
NATIONAL AERONAUTICS AND SPACE ADMIN ..	9,180	323	1,358	-	6,888	8	603	-	-
NATIONAL SCIENCE FOUNDATION	45,307	-	83	-	43,390	46	1,788	-	-
INDIANA									
TOTAL	186,172	44,343	66,597	-	72,958	-	1,604	-	670
DEPARTMENT OF AGRICULTURE	7,785	2,408	-	-	5,375	-	-	-	2
DEPARTMENT OF COMMERCE	494	3	321	-	146	-	-	-	24
DEPARTMENT OF DEFENSE	106,013	39,123	63,487	-	3,209	-	194	-	-
DEPARTMENT OF ENERGY	8,126	-	847	-	7,273	-	6	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	28,884	0	444	-	27,676	-	764	-	-
DEPARTMENT OF THE INTERIOR	1,909	1,417	-	-	260	-	-	-	232
DEPARTMENT OF TRANSPORTATION	2,141	42	573	-	1,181	-	-	-	345
ENVIRONMENTAL PROTECTION AGENCY	653	-	23	-	556	-	7	-	67
NATIONAL AERONAUTICS AND SPACE ADMIN ..	6,425	1,350	902	-	3,543	-	630	-	-
NATIONAL SCIENCE FOUNDATION	23,742	-	-	-	23,739	-	3	-	-
MICHIGAN									
TOTAL	376,701	44,767	187,042	-	121,206	-	17,148	-	6,538
DEPARTMENT OF AGRICULTURE	11,286	4,621	28	-	6,598	-	6	-	33
DEPARTMENT OF COMMERCE	5,383	3,182	125	-	1,673	-	332	-	71
DEPARTMENT OF DEFENSE	210,822	30,597	167,300	-	7,775	-	5,150	-	-
DEPARTMENT OF ENERGY	17,273	-	10,382	-	6,843	-	48	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	81,750	164	4,627	-	66,348	-	8,692	-	1,919
DEPARTMENT OF THE INTERIOR	8,805	5,598	-	-	737	-	-	-	2,470
DEPARTMENT OF TRANSPORTATION	6,837	-	3,007	-	2,789	-	-	-	1,041
ENVIRONMENTAL PROTECTION AGENCY	3,331	-	50	-	1,519	-	758	-	1,004
NATIONAL AERONAUTICS AND SPACE ADMIN ..	9,134	605	1,496	-	4,957	-	2,076	-	-
NATIONAL SCIENCE FOUNDATION	22,080	-	27	-	21,967	-	86	-	-
OHIO									
TOTAL	1,024,807	481,204	380,970	7,427	115,400	-	35,466	-	4,340
DEPARTMENT OF AGRICULTURE	11,043	4,095	-	-	6,360	-	569	-	19
DEPARTMENT OF COMMERCE	810	166	-	-	443	-	106	-	95
DEPARTMENT OF DEFENSE	619,490	336,775	251,654	-	21,851	-	9,210	-	-
DEPARTMENT OF ENERGY	113,328	603	100,754	7,427	3,802	-	742	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	94,413	18,283	1,739	-	56,649	-	17,742	-	-
DEPARTMENT OF THE INTERIOR	4,115	2,453	194	-	143	-	25	-	1,300
DEPARTMENT OF TRANSPORTATION	10,725	4,696	3,646	-	913	-	-	-	1,470
ENVIRONMENTAL PROTECTION AGENCY	38,851	23,012	8,410	-	3,555	-	2,728	-	1,146
NATIONAL AERONAUTICS AND SPACE ADMIN ..	117,067	91,121	14,473	-	7,514	-	3,649	-	310
NATIONAL SCIENCE FOUNDATION	14,965	-	100	-	14,170	-	695	-	-
WISCONSIN									
TOTAL	129,446	18,844	6,468	1,643	99,271	-	1,983	-	1,237
DEPARTMENT OF AGRICULTURE	22,300	15,020	10	-	7,209	-	48	-	13
DEPARTMENT OF COMMERCE	2,654	936	-	-	1,665	-	25	-	28
DEPARTMENT OF DEFENSE	9,209	689	3,560	-	4,960	-	-	-	-
DEPARTMENT OF ENERGY	8,510	-	-	-	8,466	-	44	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	58,817	21	1,757	1,643	53,442	-	1,866	-	88
DEPARTMENT OF THE INTERIOR	3,313	2,146	63	-	287	-	-	-	817
DEPARTMENT OF TRANSPORTATION	497	-	198	-	156	-	-	-	143
ENVIRONMENTAL PROTECTION AGENCY	1,788	-	145	-	1,547	-	-	-	96
NATIONAL AERONAUTICS AND SPACE ADMIN ..	4,333	32	616	-	3,685	-	-	-	-
NATIONAL SCIENCE FOUNDATION	18,025	-	119	-	17,854	-	-	-	52

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TABLE C-106. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	INDUSTRIAL FIRMS	EXTRAMURAL					STATE AND LOCAL GOVTS
				FFRDCS ADMIN BY INDUS- TRIAL FIRMS	UNIVER- SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON- PROFIT INSTITU- TIONS	FFRDCS ADMIN BY NON- PROFIT INSTITU- TIONS	
WEST NORTH CENTRAL									
TOTAL	2,151,274	106,736	1,714,498	-	257,572	21,643	41,453	-	9,372
DEPARTMENT OF AGRICULTURE	81,907	49,412	-	-	32,273	-	121	-	101
DEPARTMENT OF COMMERCE	1,520	611	41	-	547	-	93	-	228
DEPARTMENT OF DEFENSE	1,724,903	22,026	1,691,248	-	9,725	700	1,204	-	-
DEPARTMENT OF ENERGY	47,960	2,986	16,229	-	6,747	20,943	1,050	-	5
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	198,435	611	240	-	160,579	-	35,887	-	1,118
DEPARTMENT OF THE INTERIOR	33,860	21,789	1,425	-	5,088	-	3	-	5,563
DEPARTMENT OF TRANSPORTATION	4,250	21	1,290	-	264	-	1,167	-	1,508
ENVIRONMENTAL PROTECTION AGENCY	11,831	6,339	337	-	3,728	-	578	-	849
NATIONAL AERONAUTICS AND SPACE ADMIN ..	17,082	2,941	3,608	-	10,334	-	199	-	-
NATIONAL SCIENCE FOUNDATION	29,518	-	80	-	28,287	-	1,151	-	-
IOWA									
TOTAL	136,270	13,339	60,837	-	47,165	13,800	114	-	1,015
DEPARTMENT OF AGRICULTURE	18,718	12,511	-	-	6,195	-	-	-	12
DEPARTMENT OF COMMERCE	265	89	-	-	150	-	-	-	26
DEPARTMENT OF DEFENSE	62,919	2	60,634	-	1,583	700	-	-	-
DEPARTMENT OF ENERGY	13,355	-	-	-	255	13,100	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	30,552	-	2	-	30,414	-	92	-	44
DEPARTMENT OF THE INTERIOR	1,906	722	18	-	394	-	-	-	772
DEPARTMENT OF TRANSPORTATION	298	-	118	-	61	-	-	-	119
ENVIRONMENTAL PROTECTION AGENCY	397	-	-	-	355	-	-	-	42
NATIONAL AERONAUTICS AND SPACE ADMIN ..	3,745	15	65	-	3,665	-	-	-	-
NATIONAL SCIENCE FOUNDATION	4,115	-	-	-	4,093	-	22	-	-
KANSAS									
TOTAL	637,664	7,062	603,757	-	25,031	-	974	-	840
DEPARTMENT OF AGRICULTURE	6,588	2,772	-	-	3,690	-	116	-	10
DEPARTMENT OF COMMERCE	34	-	-	-	23	-	-	-	11
DEPARTMENT OF DEFENSE	605,579	1,890	602,006	-	1,683	-	-	-	-
DEPARTMENT OF ENERGY	2,220	-	1,142	-	1,078	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	13,350	-	-	-	12,455	-	858	-	37
DEPARTMENT OF THE INTERIOR	1,043	438	-	-	179	-	-	-	426
DEPARTMENT OF TRANSPORTATION	537	21	185	-	-	-	-	-	331
ENVIRONMENTAL PROTECTION AGENCY	154	-	129	-	-	-	-	-	25
NATIONAL AERONAUTICS AND SPACE ADMIN ..	4,579	1,941	295	-	2,343	-	-	-	-
NATIONAL SCIENCE FOUNDATION	3,580	-	-	-	3,580	-	-	-	-
MINNESOTA									
TOTAL	378,616	24,232	248,754	-	78,751	-	25,053	-	1,826
DEPARTMENT OF AGRICULTURE	13,225	7,206	-	-	5,998	-	5	-	16
DEPARTMENT OF COMMERCE	345	184	-	-	74	-	46	-	41
DEPARTMENT OF DEFENSE	235,205	313	230,844	-	3,219	-	829	-	-
DEPARTMENT OF ENERGY	17,507	-	13,986	-	3,521	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	76,173	175	5	-	51,130	-	24,124	-	739
DEPARTMENT OF THE INTERIOR	11,698	9,528	1,361	-	585	-	-	-	224
DEPARTMENT OF TRANSPORTATION	368	-	222	-	22	-	-	-	124
ENVIRONMENTAL PROTECTION AGENCY	8,944	6,339	-	-	1,886	-	37	-	682
NATIONAL AERONAUTICS AND SPACE ADMIN ..	4,353	487	2,283	-	1,583	-	-	-	-
NATIONAL SCIENCE FOUNDATION	10,798	-	53	-	10,733	-	12	-	-
MISSOURI									
TOTAL	911,311	30,131	783,377	-	82,335	-	13,385	-	2,083
DEPARTMENT OF AGRICULTURE	11,118	4,114	-	-	6,988	-	-	-	16
DEPARTMENT OF COMMERCE	612	332	41	-	150	-	47	-	42
DEPARTMENT OF DEFENSE	800,411	17,223	780,178	-	2,635	-	375	-	-
DEPARTMENT OF ENERGY	2,292	-	1,101	-	1,191	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	70,158	436	119	-	59,338	-	10,133	-	132
DEPARTMENT OF THE INTERIOR	10,937	7,609	46	-	1,922	-	3	-	1,357
DEPARTMENT OF TRANSPORTATION	2,353	-	715	-	-	-	1,167	-	471
ENVIRONMENTAL PROTECTION AGENCY	2,092	-	208	-	1,278	-	541	-	65
NATIONAL AERONAUTICS AND SPACE ADMIN ..	3,896	417	942	-	2,338	-	199	-	-
NATIONAL SCIENCE FOUNDATION	7,442	-	27	-	6,495	-	920	-	-
NEBRASKA									
TOTAL	31,988	10,013	6,197	-	12,827	-	1,917	-	1,034
DEPARTMENT OF AGRICULTURE	13,263	9,692	-	-	3,566	-	-	-	5
DEPARTMENT OF COMMERCE	36	-	-	-	-	-	-	-	36
DEPARTMENT OF DEFENSE	6,586	5	6,038	-	543	-	-	-	-
DEPARTMENT OF ENERGY	1,473	-	-	-	423	-	1,050	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	6,029	-	114	-	5,183	-	670	-	62
DEPARTMENT OF THE INTERIOR	1,159	316	-	-	151	-	-	-	692
DEPARTMENT OF TRANSPORTATION	333	-	34	-	95	-	-	-	204
ENVIRONMENTAL PROTECTION AGENCY	174	-	-	-	139	-	-	-	35
NATIONAL AERONAUTICS AND SPACE ADMIN ..	244	-	11	-	233	-	-	-	-
NATIONAL SCIENCE FOUNDATION	2,691	-	-	-	2,494	-	197	-	-

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TABLE C-106. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	INDUSTRIAL FIRMS	EXTRAMURAL				STATE AND LOCAL GOVTS
				FFRDCS ADMIN BY INDUS- TRIAL FIRMS	UNIVER- SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON- PROFIT INSTITU- TIONS	FFRDCS ADMIN BY NON- PROFIT INSTITU- TIONS
NORTH DAKOTA								
TOTAL	36,460	16,755	11,554	-	6,757	-	-	1,394
DEPARTMENT OF AGRICULTURE	14,449	11,162	-	-	3,249	-	-	38
DEPARTMENT OF COMMERCE	117	6	-	-	100	-	-	11
DEPARTMENT OF DEFENSE	11,580	6	11,548	-	26	-	-	-
DEPARTMENT OF ENERGY	3,082	2,986	-	-	91	-	-	5
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	1,386	-	-	-	1,382	-	-	4
DEPARTMENT OF THE INTERIOR	5,221	2,595	-	-	1,451	-	-	1,175
DEPARTMENT OF TRANSPORTATION	253	-	6	-	86	-	-	161
ENVIRONMENTAL PROTECTION AGENCY	10	-	-	-	10	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN ..	362	-	-	-	362	-	-	-
NATIONAL SCIENCE FOUNDATION	-	-	-	-	-	-	-	-
SOUTH DAKOTA								
TOTAL	18,965	5,204	22	-	4,706	7,843	10	1,180
DEPARTMENT OF AGRICULTURE	4,546	1,955	-	-	2,587	-	-	4
DEPARTMENT OF COMMERCE	111	-	-	-	50	-	-	61
DEPARTMENT OF DEFENSE	2,623	2,587	-	-	36	-	-	-
DEPARTMENT OF ENERGY	8,031	-	-	-	188	7,843	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	787	-	-	-	677	-	10	100
DEPARTMENT OF THE INTERIOR	1,904	581	-	-	406	-	-	917
DEPARTMENT OF TRANSPORTATION	108	-	10	-	-	-	-	98
ENVIRONMENTAL PROTECTION AGENCY	70	-	-	-	70	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN ..	255	81	12	-	162	-	-	-
NATIONAL SCIENCE FOUNDATION	530	-	-	-	530	-	-	-
SOUTH ATLANTIC								
TOTAL	7,563,561	6,194,180	2,398,789	80,644	646,129	32,547	159,718	30,454
DEPARTMENT OF AGRICULTURE	257,562	207,573	2,159	-	46,130	-	1,150	550
DEPARTMENT OF COMMERCE	162,989	141,372	7,445	-	7,969	-	5,298	905
DEPARTMENT OF DEFENSE	4,070,677	2,064,271	1,796,238	-	146,436	17,707	29,241	16,784
DEPARTMENT OF ENERGY	311,885	90,161	110,078	54,209	26,201	-	17,598	13,638
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	1,317,483	877,644	65,769	26,435	310,179	-	32,466	4,990
DEPARTMENT OF THE INTERIOR	79,837	64,354	6,368	-	5,114	-	512	3,489
DEPARTMENT OF TRANSPORTATION	105,693	22,013	61,045	-	2,459	-	12,469	7,707
ENVIRONMENTAL PROTECTION AGENCY	115,399	70,963	26,887	-	13,322	-	3,533	694
NATIONAL AERONAUTICS AND SPACE ADMIN ..	930,262	539,776	320,552	-	21,956	-	45,895	2,083
NATIONAL SCIENCE FOUNDATION	211,774	116,053	2,248	-	66,363	14,840	11,556	32
DELAWARE								
TOTAL	34,582	966	3,108	21,650	8,247	-	556	55
DEPARTMENT OF AGRICULTURE	2,419	702	-	-	1,714	-	-	3
DEPARTMENT OF COMMERCE	565	74	114	-	361	-	-	16
DEPARTMENT OF DEFENSE	2,657	9	1,706	-	866	-	76	-
DEPARTMENT OF ENERGY	22,014	-	140	21,650	224	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	1,927	-	-	-	1,719	-	208	-
DEPARTMENT OF THE INTERIOR	579	181	260	-	116	-	-	22
DEPARTMENT OF TRANSPORTATION	248	-	234	-	-	-	-	14
ENVIRONMENTAL PROTECTION AGENCY	148	-	-	-	148	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN ..	842	-	654	-	176	-	12	-
NATIONAL SCIENCE FOUNDATION	3,183	-	-	-	2,923	-	260	-
DIST. OF COLUMBIA								
TOTAL	954,649	716,812	122,162	-	42,380	-	72,123	1,172
DEPARTMENT OF AGRICULTURE	91,277	87,962	-	-	2,501	-	766	48
DEPARTMENT OF COMMERCE	16,267	13,428	713	-	200	-	1,926	-
DEPARTMENT OF DEFENSE	350,335	271,777	66,296	-	6,074	-	6,188	-
DEPARTMENT OF ENERGY	89,072	53,495	19,091	-	2,238	-	14,248	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	83,851	37,541	9,297	-	23,737	-	12,349	927
DEPARTMENT OF THE INTERIOR	20,955	20,052	4	-	387	-	512	-
DEPARTMENT OF TRANSPORTATION	42,554	17,695	21,050	-	1,048	-	2,564	197
ENVIRONMENTAL PROTECTION AGENCY	18,675	4,157	3,165	-	130	-	1,223	-
NATIONAL AERONAUTICS AND SPACE ADMIN ..	113,751	87,160	1,398	-	2,673	-	22,520	-
NATIONAL SCIENCE FOUNDATION	127,912	113,545	1,148	-	3,392	-	9,827	-
FLORIDA								
TOTAL	1,776,426	769,446	912,553	-	81,354	-	7,302	5,771
DEPARTMENT OF AGRICULTURE	19,188	12,852	-	-	6,272	-	-	64
DEPARTMENT OF COMMERCE	26,050	18,038	2,800	-	3,259	-	1,743	210
DEPARTMENT OF DEFENSE	1,292,802	559,030	720,944	-	11,655	-	1,173	-
DEPARTMENT OF ENERGY	3,530	-	309	-	3,068	-	153	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	41,588	-	75	-	37,032	-	3,972	509
DEPARTMENT OF THE INTERIOR	4,570	2,852	525	-	343	-	-	850
DEPARTMENT OF TRANSPORTATION	5,386	434	555	-	357	-	-	4,040
ENVIRONMENTAL PROTECTION AGENCY	8,700	5,103	561	-	2,941	-	95	-
NATIONAL AERONAUTICS AND SPACE ADMIN ..	360,601	171,137	186,762	-	2,702	-	-	-
NATIONAL SCIENCE FOUNDATION	14,011	-	22	-	13,725	-	166	98

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TABLE C-106. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						STATE AND LOCAL GOVTS
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS- TRIAL FIRMS	UNIVER- SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON- PROFIT INSTITU- TIONS	FFRDCS ADMIN BY NON- PROFIT INSTITU- TIONS	
GEORGIA									
TOTAL	217,263	70,338	64,938	-	74,994	-	4,732	-	2,261
DEPARTMENT OF AGRICULTURE	30,596	23,644	-	-	6,892	-	-	-	60
DEPARTMENT OF COMMERCE	942	379	-	-	189	-	250	-	124
DEPARTMENT OF DEFENSE	72,869	7,801	42,558	-	22,510	-	-	-	-
DEPARTMENT OF ENERGY	24,529	165	19,760	-	2,889	-	1,715	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	60,441	26,747	45	-	30,649	-	2,615	-	385
DEPARTMENT OF THE INTERIOR	3,586	2,485	20	-	609	-	-	-	472
DEPARTMENT OF TRANSPORTATION	1,325	21	424	-	160	-	-	-	720
ENVIRONMENTAL PROTECTION AGENCY	6,566	5,223	217	-	1,074	-	52	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN ..	8,060	3,873	1,865	-	2,322	-	-	-	-
NATIONAL SCIENCE FOUNDATION	8,349	-	49	-	7,700	-	100	-	500
MARYLAND									
TOTAL	2,850,160	1,970,714	613,756	26,435	214,600	-	20,219	204	4,232
DEPARTMENT OF AGRICULTURE	71,272	63,064	2,130	-	5,618	-	380	-	80
DEPARTMENT OF COMMERCE	107,860	101,885	3,122	-	2,283	-	433	-	137
DEPARTMENT OF DEFENSE	1,361,326	855,331	413,004	-	92,713	-	278	-	-
DEPARTMENT OF ENERGY	40,871	14,219	18,319	-	7,736	-	393	204	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	919,929	762,324	38,641	26,435	84,030	-	6,729	-	1,770
DEPARTMENT OF THE INTERIOR	12,600	11,313	745	-	281	-	-	-	261
DEPARTMENT OF TRANSPORTATION	30,971	2,939	26,246	-	435	-	-	-	1,351
ENVIRONMENTAL PROTECTION AGENCY	10,416	-	8,419	-	1,043	-	560	-	394
NATIONAL AERONAUTICS AND SPACE ADMIN ..	278,738	158,891	102,367	-	6,473	-	10,768	-	239
NATIONAL SCIENCE FOUNDATION	16,177	748	763	-	13,988	-	678	-	-
NORTH CAROLINA									
TOTAL	272,671	114,012	21,952	-	124,559	-	11,031	-	1,117
DEPARTMENT OF AGRICULTURE	17,788	8,593	-	-	9,186	-	4	-	5
DEPARTMENT OF COMMERCE	3,229	1,979	-	-	1,029	-	100	-	121
DEPARTMENT OF DEFENSE	37,501	13,044	17,634	-	5,873	-	950	-	-
DEPARTMENT OF ENERGY	3,610	-	9	-	3,601	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	133,947	41,531	999	-	85,603	-	5,450	-	364
DEPARTMENT OF THE INTERIOR	2,961	2,217	145	-	204	-	-	-	395
DEPARTMENT OF TRANSPORTATION	832	30	245	-	354	-	-	-	209
ENVIRONMENTAL PROTECTION AGENCY	55,843	46,480	2,587	-	6,087	-	689	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN ..	5,462	130	258	-	1,308	-	3,766	-	-
NATIONAL SCIENCE FOUNDATION	11,492	8	75	-	11,314	-	72	-	23
SOUTH CAROLINA									
TOTAL	98,732	9,529	31,309	32,559	22,501	-	1,588	-	1,246
DEPARTMENT OF AGRICULTURE	10,684	6,061	15	-	4,595	-	-	-	13
DEPARTMENT OF COMMERCE	2,150	1,375	39	-	-	-	682	-	54
DEPARTMENT OF DEFENSE	3,906	688	1,875	-	1,343	-	-	-	-
DEPARTMENT OF ENERGY	63,018	-	29,117	32,559	539	-	803	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	11,717	-	-	-	10,987	-	103	-	627
DEPARTMENT OF THE INTERIOR	2,133	1,362	-	-	375	-	-	-	396
DEPARTMENT OF TRANSPORTATION	462	43	233	-	30	-	-	-	156
ENVIRONMENTAL PROTECTION AGENCY	370	-	-	-	370	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN ..	158	-	30	-	128	-	-	-	-
NATIONAL SCIENCE FOUNDATION	4,134	-	-	-	4,134	-	-	-	-
VIRGINIA									
TOTAL	1,268,063	503,562	603,495	-	67,044	17,707	42,085	30,250	3,920
DEPARTMENT OF AGRICULTURE	6,579	442	10	-	6,119	-	-	-	8
DEPARTMENT OF COMMERCE	5,897	4,214	657	-	648	-	164	-	214
DEPARTMENT OF DEFENSE	923,727	356,590	506,740	-	5,350	17,707	20,576	16,784	-
DEPARTMENT OF ENERGY	40,847	30	23,333	-	3,764	-	286	13,434	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	52,917	1,425	16,712	-	33,595	-	958	-	227
DEPARTMENT OF THE INTERIOR	26,870	19,673	4,669	-	1,927	-	-	-	601
DEPARTMENT OF TRANSPORTATION	23,521	851	12,030	-	70	-	9,905	-	665
ENVIRONMENTAL PROTECTION AGENCY	14,291	-	11,938	-	1,139	-	914	-	300
NATIONAL AERONAUTICS AND SPACE ADMIN ..	162,647	118,585	27,215	-	6,174	-	8,829	-	1,844
NATIONAL SCIENCE FOUNDATION	10,767	1,752	191	-	8,278	-	453	32	61
WEST VIRGINIA									
TOTAL	91,015	38,801	25,516	-	10,450	14,840	82	-	1,326
DEPARTMENT OF AGRICULTURE	7,759	4,253	4	-	3,233	-	-	-	269
DEPARTMENT OF COMMERCE	29	-	-	-	-	-	-	-	29
DEPARTMENT OF DEFENSE	25,554	1	25,481	-	72	-	-	-	-
DEPARTMENT OF ENERGY	24,394	22,252	-	-	2,142	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	11,166	8,076	-	-	2,827	-	82	-	181
DEPARTMENT OF THE INTERIOR	5,583	4,219	-	-	872	-	-	-	492
DEPARTMENT OF TRANSPORTATION	388	-	28	-	5	-	-	-	355
ENVIRONMENTAL PROTECTION AGENCY	390	-	-	-	390	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN ..	3	-	3	-	-	-	-	-	-
NATIONAL SCIENCE FOUNDATION	15,749	-	-	-	909	14,840	-	-	-

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TABLE C-106. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	INDUSTRIAL FIRMS	EXTRAMURAL				OTHER NON- PROFIT INSTITU- TIONS	FFRDCS ADMIN BY NON- PROFIT INSTITU- TIONS	STATE AND LOCAL GOVTS
				FFRDCS ADMIN BY INDUS- TRIAL FIRMS	UNIVER- SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES				
EAST SOUTH CENTRAL										
TOTAL	1,486,683	502,978	596,995	212,557	144,696	1,299	23,308	-	-	4,850
DEPARTMENT OF AGRICULTURE	48,500	22,189	-	100	26,110	-	-	-	-	101
DEPARTMENT OF COMMERCE	7,900	5,216	1,337	-	734	-	278	-	-	335
DEPARTMENT OF DEFENSE	669,592	301,254	359,536	174	5,618	244	2,766	-	-	-
DEPARTMENT OF ENERGY	407,697	2,516	187,941	208,883	7,693	333	331	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	115,772	7,324	746	885	89,701	722	15,991	-	-	403
DEPARTMENT OF THE INTERIOR	11,521	8,163	550	110	1,078	-	-	-	-	1,620
DEPARTMENT OF TRANSPORTATION	6,010	1,285	1,429	-	505	-	400	-	-	2,391
ENVIRONMENTAL PROTECTION AGENCY	12,853	-	9,925	-	1,281	-	1,647	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN ..	196,243	154,303	35,531	-	4,675	-	1,734	-	-	-
NATIONAL SCIENCE FOUNDATION	10,595	728	-	2,405	7,301	-	161	-	-	-
ALABAMA										
TOTAL	561,543	322,751	176,409	-	47,144	-	13,788	-	-	1,451
DEPARTMENT OF AGRICULTURE	9,748	2,698	-	-	7,027	-	-	-	-	23
DEPARTMENT OF COMMERCE	1,336	821	31	-	200	-	114	-	-	170
DEPARTMENT OF DEFENSE	306,457	166,913	135,169	-	1,609	-	2,766	-	-	-
DEPARTMENT OF ENERGY	11,219	-	10,454	-	765	-	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	41,810	-	560	-	33,328	-	7,803	-	-	119
DEPARTMENT OF THE INTERIOR	5,756	4,564	468	-	274	-	-	-	-	450
DEPARTMENT OF TRANSPORTATION	2,092	608	621	-	174	-	-	-	-	689
ENVIRONMENTAL PROTECTION AGENCY	1,744	-	-	-	362	-	1,382	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN ..	180,254	147,147	29,106	-	2,278	-	1,723	-	-	-
NATIONAL SCIENCE FOUNDATION	1,127	-	-	-	1,127	-	-	-	-	-
KENTUCKY										
TOTAL	97,163	16,149	58,253	-	21,312	-	404	-	-	1,045
DEPARTMENT OF AGRICULTURE	8,006	1,188	-	-	6,803	-	-	-	-	15
DEPARTMENT OF COMMERCE	73	-	-	-	50	-	-	-	-	23
DEPARTMENT OF DEFENSE	10,358	8,094	1,874	-	390	-	-	-	-	-
DEPARTMENT OF ENERGY	54,897	-	53,920	-	977	-	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	15,582	5,401	183	-	9,605	-	393	-	-	-
DEPARTMENT OF THE INTERIOR	2,105	1,302	77	-	260	-	-	-	-	466
DEPARTMENT OF TRANSPORTATION	735	-	23	-	171	-	-	-	-	541
ENVIRONMENTAL PROTECTION AGENCY	2,646	-	2,114	-	532	-	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN ..	941	164	62	-	704	-	11	-	-	-
NATIONAL SCIENCE FOUNDATION	1,820	-	-	-	1,820	-	-	-	-	-
MISSISSIPPI										
TOTAL	125,701	87,509	18,908	-	17,559	-	870	-	-	855
DEPARTMENT OF AGRICULTURE	23,561	17,345	-	-	6,157	-	-	-	-	59
DEPARTMENT OF COMMERCE	5,992	4,343	1,303	-	215	-	-	-	-	131
DEPARTMENT OF DEFENSE	71,349	58,540	11,502	-	1,307	-	-	-	-	-
DEPARTMENT OF ENERGY	1,981	-	1,473	-	508	-	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	7,709	-	2	-	7,045	-	527	-	-	135
DEPARTMENT OF THE INTERIOR	1,324	808	-	-	328	-	-	-	-	188
DEPARTMENT OF TRANSPORTATION	877	230	13	-	42	-	250	-	-	342
ENVIRONMENTAL PROTECTION AGENCY	480	-	-	-	387	-	93	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN ..	11,010	5,964	4,615	-	431	-	-	-	-	-
NATIONAL SCIENCE FOUNDATION	1,418	279	-	-	1,139	-	-	-	-	-
TENNESSEE										
TOTAL	702,276	76,569	343,425	212,557	58,681	1,299	8,246	-	-	1,499
DEPARTMENT OF AGRICULTURE	7,185	958	-	100	6,123	-	-	-	-	4
DEPARTMENT OF COMMERCE	499	52	3	-	269	-	164	-	-	11
DEPARTMENT OF DEFENSE	281,428	67,707	210,991	174	2,312	244	-	-	-	-
DEPARTMENT OF ENERGY	339,600	2,516	122,094	208,883	5,443	333	331	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	90,671	1,923	1	885	39,723	722	7,268	-	-	149
DEPARTMENT OF THE INTERIOR	2,336	1,489	5	110	216	-	-	-	-	516
DEPARTMENT OF TRANSPORTATION	2,306	447	772	-	118	-	150	-	-	819
ENVIRONMENTAL PROTECTION AGENCY	7,983	-	7,811	-	-	-	172	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN ..	4,038	1,028	1,748	-	1,262	-	-	-	-	-
NATIONAL SCIENCE FOUNDATION	6,230	449	-	2,405	3,215	-	161	-	-	-
WEST SOUTH CENTRAL										
TOTAL	1,400,110	322,417	748,601	-	283,966	-	34,023	-	-	11,103
DEPARTMENT OF AGRICULTURE	89,405	57,964	102	-	31,009	-	76	-	-	254
DEPARTMENT OF COMMERCE	9,123	5,511	112	-	2,991	-	121	-	-	388
DEPARTMENT OF DEFENSE	490,023	56,698	411,502	-	15,109	-	6,677	-	-	37
DEPARTMENT OF ENERGY	102,617	8,432	74,121	-	19,196	-	868	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	201,076	23,799	1,541	-	158,726	-	15,906	-	-	1,104
DEPARTMENT OF THE INTERIOR	15,171	7,049	1,115	-	1,646	-	1,307	-	-	4,054
DEPARTMENT OF TRANSPORTATION	38,996	1,734	23,996	-	5,354	-	2,681	-	-	5,231
ENVIRONMENTAL PROTECTION AGENCY	24,452	2,948	10,424	-	9,047	-	1,998	-	-	35
NATIONAL AERONAUTICS AND SPACE ADMIN ..	400,051	158,282	225,527	-	12,111	-	4,131	-	-	-
NATIONAL SCIENCE FOUNDATION	29,196	-	161	-	28,777	-	258	-	-	-

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TABLE C-106. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						STATE AND LOCAL GOVTS
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS- TRIAL FIRMS	UNIVER- SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON- PROFIT INSTITU- TIONS	FFRDCS ADMIN BY NON- PROFIT INSTITU- TIONS	
ARKANSAS									
TOTAL	43,485	25,741	5,682	-	10,656	-	58	-	1,348
DEPARTMENT OF AGRICULTURE	6,780	1,670	-	-	5,094	-	6	-	10
DEPARTMENT OF COMMERCE	132	14	9	-	50	-	-	-	59
DEPARTMENT OF DEFENSE	904	105	785	-	14	-	-	-	-
DEPARTMENT OF ENERGY	4,822	-	4,621	-	201	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	25,318	22,211	-	-	2,802	-	52	-	253
DEPARTMENT OF THE INTERIOR	1,879	1,741	-	-	110	-	-	-	28
DEPARTMENT OF TRANSPORTATION	1,305	-	187	-	120	-	-	-	998
ENVIRONMENTAL PROTECTION AGENCY	770	-	-	-	770	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	290	-	80	-	210	-	-	-	-
NATIONAL SCIENCE FOUNDATION	1,285	-	-	-	1,285	-	-	-	-
LOUISIANA									
TOTAL	236,791	37,692	160,618	-	32,613	-	3,914	-	1,954
DEPARTMENT OF AGRICULTURE	34,926	30,307	-	-	4,523	-	-	-	96
DEPARTMENT OF COMMERCE	2,287	926	-	-	1,179	-	50	-	132
DEPARTMENT OF DEFENSE	30,196	3,421	25,178	-	1,367	-	210	-	20
DEPARTMENT OF ENERGY	40,622	-	39,359	-	1,263	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	24,257	1,356	2	-	19,641	-	3,149	-	109
DEPARTMENT OF THE INTERIOR	2,628	1,610	-	-	425	-	-	-	593
DEPARTMENT OF TRANSPORTATION	2,043	47	748	-	244	-	-	-	1,004
ENVIRONMENTAL PROTECTION AGENCY	1,390	-	29	-	1,361	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	96,118	25	95,276	-	312	-	505	-	-
NATIONAL SCIENCE FOUNDATION	2,324	-	26	-	2,298	-	-	-	-
OKLAHOMA									
TOTAL	65,554	26,213	11,633	-	22,188	-	4,365	-	1,155
DEPARTMENT OF AGRICULTURE	9,215	5,099	-	-	4,039	-	70	-	7
DEPARTMENT OF COMMERCE	2,303	1,559	83	-	579	-	71	-	11
DEPARTMENT OF DEFENSE	11,025	5,105	3,912	-	2,008	-	-	-	-
DEPARTMENT OF ENERGY	8,403	7,569	178	-	656	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	9,619	-	-	-	5,648	-	3,971	-	-
DEPARTMENT OF THE INTERIOR	1,701	690	11	-	492	-	-	-	508
DEPARTMENT OF TRANSPORTATION	9,663	1,540	7,449	-	62	-	18	-	594
ENVIRONMENTAL PROTECTION AGENCY	7,098	2,948	-	-	4,040	-	75	-	35
NATIONAL AERONAUTICS AND SPACE ADMIN	3,918	1,703	-	-	2,215	-	-	-	-
NATIONAL SCIENCE FOUNDATION	2,609	-	-	-	2,449	-	160	-	-
TEXAS									
TOTAL	1,054,280	232,771	570,668	-	218,509	-	25,686	-	6,646
DEPARTMENT OF AGRICULTURE	38,484	20,888	102	-	17,353	-	-	-	141
DEPARTMENT OF COMMERCE	4,401	3,012	20	-	1,183	-	-	-	186
DEPARTMENT OF DEFENSE	447,898	48,067	381,627	-	11,720	-	6,467	-	17
DEPARTMENT OF ENERGY	48,770	863	29,963	-	17,076	-	868	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	141,882	232	1,539	-	130,635	-	8,734	-	742
DEPARTMENT OF THE INTERIOR	8,963	3,008	1,104	-	619	-	1,307	-	2,925
DEPARTMENT OF TRANSPORTATION	25,985	147	15,612	-	4,928	-	2,663	-	2,635
ENVIRONMENTAL PROTECTION AGENCY	15,194	-	10,395	-	2,876	-	1,923	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	299,725	156,554	130,171	-	9,374	-	3,626	-	-
NATIONAL SCIENCE FOUNDATION	22,978	-	135	-	22,745	-	98	-	-
MOUNTAIN									
TOTAL	3,002,829	567,913	1,145,595	481,494	227,637	476,907	31,587	50,819	20,877
DEPARTMENT OF AGRICULTURE	64,645	44,144	76	-	20,250	-	118	-	57
DEPARTMENT OF COMMERCE	44,765	35,540	958	-	6,647	-	633	-	446
DEPARTMENT OF DEFENSE	1,104,688	375,475	680,677	10,576	34,616	541	626	-	18
DEPARTMENT OF ENERGY	1,362,431	14,150	366,752	470,718	14,400	427,998	17,494	50,759	160
DEPARTMENT OF HEALTH & HUMAN SRVCS	99,393	8,753	55	-	80,877	-	9,489	-	609
DEPARTMENT OF THE INTERIOR	89,904	60,314	4,099	200	8,345	55	36	60	16,795
DEPARTMENT OF TRANSPORTATION	16,809	4,843	9,072	-	424	-	-	-	2,470
ENVIRONMENTAL PROTECTION AGENCY	24,995	14,418	2,460	-	6,879	-	916	-	322
NATIONAL AERONAUTICS AND SPACE ADMIN	109,277	9,880	80,827	-	16,674	350	1,546	-	-
NATIONAL SCIENCE FOUNDATION	65,922	786	619	-	38,525	45,263	729	-	-
ARIZONA									
TOTAL	264,470	67,759	137,274	-	43,444	11,220	2,177	-	2,596
DEPARTMENT OF AGRICULTURE	13,430	10,456	29	-	2,944	-	-	-	1
DEPARTMENT OF COMMERCE	169	-	-	-	-	-	158	-	11
DEPARTMENT OF DEFENSE	172,639	49,448	117,261	-	5,854	-	76	-	-
DEPARTMENT OF ENERGY	13,383	-	12,194	-	1,189	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	20,852	2,882	-	-	16,968	-	730	-	272
DEPARTMENT OF THE INTERIOR	5,462	3,047	488	-	291	-	29	-	1,607
DEPARTMENT OF TRANSPORTATION	2,126	-	1,324	-	97	-	-	-	705
ENVIRONMENTAL PROTECTION AGENCY	886	-	243	-	643	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	13,879	1,926	5,669	-	5,237	-	1,047	-	-
NATIONAL SCIENCE FOUNDATION	21,644	-	66	-	10,221	11,220	137	-	-

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TABLE C-106. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

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GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						STATE AND LOCAL GOVTS
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS- TRIAL FIRMS	UNIVER- SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON- PROFIT INSTITU- TIONS	FFRDCS ADMIN BY NON- PROFIT INSTITU- TIONS	
COLORADO									
TOTAL	556,596	83,391	301,006	317	76,308	32,534	8,366	50,819	3,855
DEPARTMENT OF AGRICULTURE	14,590	10,483	5	-	4,085	-	-	-	17
DEPARTMENT OF COMMERCE	43,460	34,902	958	-	6,563	541	460	-	36
DEPARTMENT OF DEFENSE	253,498	1,621	244,953	-	6,707	-	217	-	-
DEPARTMENT OF ENERGY	78,759	1,051	21,093	317	5,206	-	333	50,759	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	36,744	243	55	-	30,405	-	6,014	-	27
DEPARTMENT OF THE INTERIOR	33,608	26,648	2,416	-	1,684	-	7	60	2,793
DEPARTMENT OF TRANSPORTATION	12,400	4,443	6,969	-	101	-	-	-	887
ENVIRONMENTAL PROTECTION AGENCY	4,930	-	1,793	-	2,719	-	323	-	95
NATIONAL AERONAUTICS AND SPACE ADMIN ..	32,101	3,254	22,636	-	5,712	-	499	-	-
NATIONAL SCIENCE FOUNDATION	46,506	746	128	-	13,126	31,993	513	-	-
IDAH0									
TOTAL	126,959	10,125	4,800	52,675	5,197	50,030	1,672	-	2,460
DEPARTMENT OF AGRICULTURE	9,460	5,989	-	-	3,456	-	-	-	15
DEPARTMENT OF COMMERCE	126	115	-	-	-	-	-	-	11
DEPARTMENT OF DEFENSE	20	5	15	-	-	-	-	-	-
DEPARTMENT OF ENERGY	109,191	390	4,274	52,675	171	50,030	1,580	-	71
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	525	54	-	-	379	-	92	-	-
DEPARTMENT OF THE INTERIOR	6,846	3,552	433	-	611	-	-	-	2,250
DEPARTMENT OF TRANSPORTATION	126	-	11	-	2	-	-	-	113
ENVIRONMENTAL PROTECTION AGENCY	219	-	-	-	219	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN ..	130	20	67	-	43	-	-	-	-
NATIONAL SCIENCE FOUNDATION	316	-	-	-	316	-	-	-	-
MONTANA									
TOTAL	42,683	17,944	10,785	-	7,458	-	479	-	6,017
DEPARTMENT OF AGRICULTURE	10,138	7,279	42	-	2,691	-	118	-	8
DEPARTMENT OF COMMERCE	146	-	-	-	-	-	-	-	146
DEPARTMENT OF DEFENSE	1,187	552	364	-	271	-	-	-	-
DEPARTMENT OF ENERGY	10,656	-	10,365	-	165	-	37	-	89
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	5,744	4,548	-	-	847	-	324	-	25
DEPARTMENT OF THE INTERIOR	11,367	5,565	-	-	377	-	-	-	5,425
DEPARTMENT OF TRANSPORTATION	196	-	14	-	15	-	-	-	169
ENVIRONMENTAL PROTECTION AGENCY	1,368	-	-	-	4,213	-	-	-	155
NATIONAL AERONAUTICS AND SPACE ADMIN ..	107	-	-	-	107	-	-	-	-
NATIONAL SCIENCE FOUNDATION	1,772	-	-	-	1,772	-	-	-	-
NEVADA									
TOTAL	376,280	63,035	303,907	-	7,243	-	636	-	1,459
DEPARTMENT OF AGRICULTURE	1,931	782	-	-	1,149	-	-	-	-
DEPARTMENT OF COMMERCE	87	-	-	-	-	-	15	-	72
DEPARTMENT OF DEFENSE	46,487	60,636	5,758	-	93	-	-	-	-
DEPARTMENT OF ENERGY	299,376	227	297,797	-	1,352	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	553	-	-	-	525	-	28	-	-
DEPARTMENT OF THE INTERIOR	9,796	6,855	-	-	1,751	-	-	-	1,190
DEPARTMENT OF TRANSPORTATION	154	-	19	-	10	-	-	-	125
ENVIRONMENTAL PROTECTION AGENCY	15,788	14,418	34	-	671	-	593	-	72
NATIONAL AERONAUTICS AND SPACE ADMIN ..	990	117	299	-	574	-	-	-	-
NATIONAL SCIENCE FOUNDATION	1,118	-	-	-	1,118	-	-	-	-
NEW MEXICO									
TOTAL	1,322,595	257,217	207,784	428,502	27,956	383,123	16,243	-	1,770
DEPARTMENT OF AGRICULTURE	3,579	1,745	-	-	1,833	-	-	-	1
DEPARTMENT OF COMMERCE	646	523	-	-	75	-	-	-	48
DEPARTMENT OF DEFENSE	449,771	245,513	180,379	10,576	10,277	2,700	308	-	18
DEPARTMENT OF ENERGY	831,478	-	18,838	417,726	1,447	377,968	15,499	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	9,509	636	-	-	8,372	-	411	-	90
DEPARTMENT OF THE INTERIOR	6,159	3,865	98	200	425	55	-	-	1,516
DEPARTMENT OF TRANSPORTATION	1,223	400	532	-	194	-	-	-	97
ENVIRONMENTAL PROTECTION AGENCY	544	-	348	-	196	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN ..	15,101	4,495	7,589	-	2,667	350	-	-	-
NATIONAL SCIENCE FOUNDATION	4,585	40	-	-	2,470	2,050	25	-	-
UTAH									
TOTAL	287,866	50,299	179,824	-	53,245	-	2,014	-	2,484
DEPARTMENT OF AGRICULTURE	7,964	5,362	-	-	2,588	-	-	-	14
DEPARTMENT OF COMMERCE	70	-	-	-	9	-	-	-	61
DEPARTMENT OF DEFENSE	180,559	37,689	131,847	-	10,998	-	25	-	-
DEPARTMENT OF ENERGY	6,671	-	2,191	-	4,435	-	45	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	24,855	-	-	-	22,770	-	1,690	-	195
DEPARTMENT OF THE INTERIOR	11,787	7,180	664	-	1,945	-	-	-	1,998
DEPARTMENT OF TRANSPORTATION	304	-	88	-	-	-	-	-	216
ENVIRONMENTAL PROTECTION AGENCY	786	-	42	-	744	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN ..	46,642	68	44,567	-	2,007	-	-	-	-
NATIONAL SCIENCE FOUNDATION	8,228	-	425	-	7,749	-	54	-	-

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TABLE C-106. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						STATE AND LOCAL GOVTS
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS- TRIAL FIRMS	UNIVER- SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON- PROFIT INSTITU- TIONS	FFRDCS ADMIN BY NON- PROFIT INSTITU- TIONS	
WYOMING									
TOTAL	25,380	18,143	215	-	6,786	-	-	-	236
DEPARTMENT OF AGRICULTURE	3,553	2,048	-	-	1,504	-	-	-	1
DEPARTMENT OF COMMERCE	61	-	-	-	-	-	-	-	61
DEPARTMENT OF DEFENSE	527	11	100	-	416	-	-	-	-
DEPARTMENT OF ENERGY	12,917	12,482	-	-	435	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	611	-	-	-	611	-	-	-	-
DEPARTMENT OF THE INTERIOR	4,879	3,602	-	-	1,261	-	-	-	16
DEPARTMENT OF TRANSPORTATION	278	-	115	-	5	-	-	-	158
ENVIRONMENTAL PROTECTION AGENCY	474	-	-	-	474	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN ..	327	-	-	-	327	-	-	-	-
NATIONAL SCIENCE FOUNDATION	1,753	-	-	-	1,753	-	-	-	-
PACIFIC									
TOTAL	10,118,023	1,312,992	6,406,617	190,622	823,372	799,278	200,584	346,467	38,091
DEPARTMENT OF AGRICULTURE	90,464	61,418	91	-	28,122	-	-	-	833
DEPARTMENT OF COMMERCE	59,935	29,170	6,528	-	15,324	240	5,413	101	3,159
DEPARTMENT OF DEFENSE	6,805,011	943,336	5,386,971	214	88,527	44,708	45,397	295,795	63
DEPARTMENT OF ENERGY	1,162,749	14,988	280,327	190,408	65,853	558,376	2,688	49,392	717
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	550,832	2,627	14,012	-	386,013	14,001	123,963	329	9,887
DEPARTMENT OF THE INTERIOR	81,001	57,501	6,137	-	6,249	2	229	170	10,713
DEPARTMENT OF TRANSPORTATION	36,439	2,729	24,667	-	1,179	75	201	-	7,588
ENVIRONMENTAL PROTECTION AGENCY	49,449	6,786	21,354	-	9,410	-	7,089	-	4,810
NATIONAL AERONAUTICS AND SPACE ADMIN ..	1,085,274	194,106	656,674	-	46,438	181,803	5,836	417	-
NATIONAL SCIENCE FOUNDATION	196,869	331	9,856	-	176,257	73	9,768	263	321
ALASKA									
TOTAL	40,003	21,215	1,412	-	10,713	-	1,975	-	4,688
DEPARTMENT OF AGRICULTURE	4,853	3,728	-	-	1,123	-	-	-	2
DEPARTMENT OF COMMERCE	4,554	1,781	87	-	30	-	1,975	-	681
DEPARTMENT OF DEFENSE	7,932	6,396	874	-	662	-	-	-	-
DEPARTMENT OF ENERGY	759	-	125	-	634	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	329	21	-	-	193	-	-	-	115
DEPARTMENT OF THE INTERIOR	13,401	9,274	48	-	537	-	-	-	3,542
DEPARTMENT OF TRANSPORTATION	360	15	10	-	18	-	-	-	317
ENVIRONMENTAL PROTECTION AGENCY	156	-	-	-	125	-	-	-	31
NATIONAL AERONAUTICS AND SPACE ADMIN ..	1,570	-	268	-	1,302	-	-	-	-
NATIONAL SCIENCE FOUNDATION	6,089	-	-	-	6,089	-	-	-	-
CALIFORNIA									
TOTAL	8,888,300	1,181,326	5,722,621	75,001	627,520	799,278	163,567	296,934	22,053
DEPARTMENT OF AGRICULTURE	49,298	34,117	11	-	14,393	-	-	-	777
DEPARTMENT OF COMMERCE	14,292	7,666	1,816	-	2,845	240	761	-	964
DEPARTMENT OF DEFENSE	6,141,172	914,982	4,768,773	214	72,785	44,708	44,326	295,321	63
DEPARTMENT OF ENERGY	923,106	569	230,428	74,787	56,031	558,376	1,888	1,027	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	431,276	2,214	12,784	-	298,249	14,001	94,571	-	9,457
DEPARTMENT OF THE INTERIOR	38,942	25,290	5,692	-	4,147	2	122	170	3,519
DEPARTMENT OF TRANSPORTATION	29,123	2,545	20,020	-	902	75	200	-	5,381
ENVIRONMENTAL PROTECTION AGENCY	36,075	-	21,354	-	6,261	-	6,889	-	1,571
NATIONAL AERONAUTICS AND SPACE ADMIN ..	1,071,856	193,612	652,534	-	37,762	181,803	5,836	309	-
NATIONAL SCIENCE FOUNDATION	153,160	331	9,209	-	134,145	73	8,974	107	321
HAWAII									
TOTAL	44,541	10,703	7,760	-	22,132	-	3,212	-	737
DEPARTMENT OF AGRICULTURE	3,668	1,720	-	-	1,914	-	-	-	34
DEPARTMENT OF COMMERCE	5,107	867	600	-	2,425	-	1,196	-	19
DEPARTMENT OF DEFENSE	13,729	5,708	6,103	-	1,861	-	57	-	-
DEPARTMENT OF ENERGY	2,347	-	949	-	1,398	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	7,332	131	-	-	5,710	-	1,491	-	-
DEPARTMENT OF THE INTERIOR	2,893	2,158	-	-	271	-	-	-	464
DEPARTMENT OF TRANSPORTATION	338	100	18	-	-	-	-	-	220
ENVIRONMENTAL PROTECTION AGENCY	162	-	-	-	162	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN ..	4,313	19	37	-	4,257	-	-	-	-
NATIONAL SCIENCE FOUNDATION	4,655	-	53	-	4,134	-	468	-	-
OREGON									
TOTAL	106,319	33,484	12,762	-	46,880	-	9,317	-	3,876
DEPARTMENT OF AGRICULTURE	17,826	12,487	30	-	5,299	-	-	-	10
DEPARTMENT OF COMMERCE	3,209	670	34	-	1,131	-	654	-	720
DEPARTMENT OF DEFENSE	4,620	8	416	-	4,196	-	-	-	-
DEPARTMENT OF ENERGY	15,510	3,619	9,889	-	1,363	-	-	-	639
DEPARTMENT OF HEALTH & HUMAN SRVCS ..	30,051	-	983	-	20,340	-	8,590	-	138
DEPARTMENT OF THE INTERIOR	12,717	9,743	278	-	773	-	-	-	1,923
DEPARTMENT OF TRANSPORTATION	718	-	172	-	106	-	-	-	446
ENVIRONMENTAL PROTECTION AGENCY	8,319	6,786	-	-	1,533	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN ..	1,899	171	786	-	942	-	-	-	-
NATIONAL SCIENCE FOUNDATION	11,450	-	174	-	11,203	-	73	-	-

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TABLE C-106. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						STATE AND LOCAL GOVTS
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS- TRIAL FIRMS	UNIVER- SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON- PROFIT INSTITU- TIONS	FFRDCS ADMIN BY NON- PROFIT INSTITU- TIONS	
WASHINGTON									
TOTAL	1,038,857	66,264	662,062	115,621	116,127	-	22,513	49,533	6,737
DEPARTMENT OF AGRICULTURE	14,819	9,366	50	-	5,393	-	-	-	10
DEPARTMENT OF COMMERCE	32,773	18,186	3,991	-	8,893	-	827	101	775
DEPARTMENT OF DEFENSE	637,558	16,242	610,805	-	9,023	-	1,014	474	-
DEPARTMENT OF ENERGY	221,027	10,800	38,936	115,621	6,427	-	800	48,365	78
DEPARTMENT OF HEALTH & HUMAN SRVCS	81,844	261	245	-	61,521	-	19,311	329	177
DEPARTMENT OF THE INTERIOR	13,048	11,036	119	-	521	-	107	-	1,265
DEPARTMENT OF TRANSPORTATION	5,900	69	4,447	-	159	-	1	-	1,224
ENVIRONMENTAL PROTECTION AGENCY	4,737	-	-	-	1,329	-	200	-	3,208
NATIONAL AERONAUTICS AND SPACE ADMIN	5,636	304	3,049	-	2,175	-	-	108	-
NATIONAL SCIENCE FOUNDATION	21,515	-	420	-	20,686	-	253	156	-
OUTLYING AREAS									
TOTAL	40,726	22,516	128	-	12,150	5,320	104	-	508
DEPARTMENT OF AGRICULTURE	7,044	1,784	-	-	5,231	-	-	-	29
DEPARTMENT OF COMMERCE	1,057	59	6	-	618	-	104	-	270
DEPARTMENT OF DEFENSE	20,529	20,047	-	-	482	-	-	-	-
DEPARTMENT OF ENERGY	823	-	35	-	788	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	4,613	478	2	-	4,002	-	-	-	131
DEPARTMENT OF THE INTERIOR	478	148	-	-	330	-	-	-	-
DEPARTMENT OF TRANSPORTATION	294	-	85	-	131	-	-	-	78
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	130	-	-	-	130	-	-	-	-
NATIONAL SCIENCE FOUNDATION	5,758	-	-	-	438	5,320	-	-	-
OFFICES ABROAD									
TOTAL	58,966	14,869	27,199	-	10,646	6,057	195	-	-
DEPARTMENT OF AGRICULTURE	1,826	1,089	-	-	737	-	-	-	-
DEPARTMENT OF COMMERCE	47	2	45	-	-	-	-	-	-
DEPARTMENT OF DEFENSE	42,585	13,778	27,154	-	1,467	-	186	-	-
DEPARTMENT OF ENERGY	-	-	-	-	-	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	-	-	-	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR	-	-	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION	9	-	-	-	-	-	9	-	-
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	8,442	-	-	-	8,442	-	-	-	-
NATIONAL SCIENCE FOUNDATION	6,057	-	-	-	-	6,057	-	-	-

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

NOTE: THE OBLIGATIONS OF THE TEN MAJOR R&D SUPPORTING AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 97 PERCENT OF TOTAL FEDERAL R&D OBLIGATIONS IN FY 1982.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-107. FEDERAL OBLIGATIONS FOR R&D PLANT, BY GEOGRAPHIC DIVISION, STATE,
AND PERFORMER SUPPORTED: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

GEOGRAPHIC DIVISION AND STATE	TOTAL	FEDERAL INTRA- MURAL	EXTRAMURAL						STATE AND LOCAL GOVTS
			INDUS- TRIAL FIRMS	FFRDCS ADMIN BY INDUS- TRIAL FIRMS	UNIVER- SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITU- TIONS	FFRDCS ADMIN BY NONPROFIT INSTITU- TIONS	
TOTAL.....	1,380,109	422,361	109,535	362,190	30,262	441,660	4,655	9,446	-
NEW ENGLAND.....	50,566	22,496	175	20,000	7,445	50	400	-	-
CONNECTICUT.....	25,082	4,784	-	20,000	298	-	-	-	-
MAINE.....	16	16	-	-	-	-	-	-	-
MASSACHUSETTS.....	23,298	15,616	85	-	7,147	50	400	-	-
NEW HAMPSHIRE.....	90	-	90	-	-	-	-	-	-
RHODE ISLAND.....	2,080	2,080	-	-	-	-	-	-	-
VERMONT.....	-	-	-	-	-	-	-	-	-
MIDDLE ATLANTIC.....	173,063	19,426	22,842	46,400	5,508	78,887	-	-	-
NEW JERSEY.....	56,972	8,691	1,530	-	60	46,691	-	-	-
NEW YORK.....	64,953	5,188	160	23,416	3,993	32,196	-	-	-
PENNSYLVANIA.....	51,138	5,547	21,152	22,984	1,455	-	-	-	-
EAST NORTH CENTRAL.....	107,435	18,918	13,684	-	8,217	66,616	-	-	-
ILLINOIS.....	74,269	789	6,384	-	480	66,616	-	-	-
INDIANA.....	625	88	14	-	523	-	-	-	-
MICHIGAN.....	7,802	236	1,100	-	6,466	-	-	-	-
OHIO.....	23,745	17,559	6,186	-	-	-	-	-	-
WISCONSIN.....	994	246	-	-	748	-	-	-	-
WEST NORTH CENTRAL.....	11,248	9,109	-	-	460	1,679	-	-	-
IOWA.....	2,239	560	-	-	-	1,679	-	-	-
KANSAS.....	118	118	-	-	-	-	-	-	-
MINNESOTA.....	412	157	-	-	-	-	-	-	-
MISSOURI.....	5,673	5,468	-	-	255	-	-	-	-
NEBRASKA.....	703	703	-	-	205	-	-	-	-
NORTH DAKOTA.....	1,243	1,243	-	-	-	-	-	-	-
SOUTH DAKOTA.....	860	860	-	-	-	-	-	-	-
SOUTH ATLANTIC.....	237,928	162,712	6,660	66,156	2,200	-	200	-	-
DELAWARE.....	106	106	-	-	-	-	-	-	-
DISTRICT OF COLUMBIA.....	33,593	33,493	100	-	-	-	-	-	-
FLORIDA.....	31,792	31,243	-	-	549	-	-	-	-
GEORGIA.....	1,464	602	-	-	862	-	-	-	-
MARYLAND.....	82,241	75,257	3,284	3,240	460	-	-	-	-
NORTH CAROLINA.....	1,390	506	590	-	294	-	-	-	-
SOUTH CAROLINA.....	65,160	161	1,883	62,916	-	-	200	-	-
VIRGINIA.....	21,131	20,293	803	-	39	-	-	-	-
WEST VIRGINIA.....	1,051	1,051	-	-	-	-	-	-	-
EAST SOUTH CENTRAL.....	78,351	8,475	19,852	49,562	-	352	110	-	-
ALABAMA.....	5,831	2,493	3,338	-	-	-	-	-	-
KENTUCKY.....	1,441	22	1,419	-	-	-	-	-	-
MISSISSIPPI.....	5,891	5,891	-	-	-	-	-	-	-
TENNESSEE.....	65,188	69	15,095	49,562	-	352	110	-	-
WEST SOUTH CENTRAL.....	34,661	32,757	1,100	-	804	-	-	-	-
ARKANSAS.....	1,026	26	1,000	-	-	-	-	-	-
LOUISIANA.....	22,183	22,093	-	-	90	-	-	-	-
OKLAHOMA.....	1,206	1,206	-	-	-	-	-	-	-
TEXAS.....	10,246	9,432	100	-	714	-	-	-	-
MOUNTAIN.....	269,424	25,531	31,415	105,153	434	101,443	3,043	2,405	-
ARIZONA.....	407	307	100	-	-	-	-	-	-
COLORADO.....	16,571	13,780	216	20	150	-	-	2,405	-
IDAHO.....	21,434	286	346	10,762	-	10,025	15	-	-
MONTANA.....	114	114	-	-	-	-	-	-	-
NEVADA.....	29,991	127	29,749	-	56	60	-	-	-
NEW MEXICO.....	196,600	6,620	995	94,371	228	91,358	3,028	-	-
UTAH.....	3,148	3,138	10	-	-	-	-	-	-
WYOMING.....	1,159	1,159	-	-	-	-	-	-	-
PACIFIC.....	415,478	121,072	13,807	74,919	5,104	192,633	902	7,041	-
ALASKA.....	13	13	-	-	-	-	-	-	-
CALIFORNIA.....	334,555	119,026	10,451	6,768	4,775	192,633	902	-	-
HAWAII.....	59	40	-	-	19	-	-	-	-
OREGON.....	80	80	-	-	-	-	-	-	-
WASHINGTON.....	80,771	1,913	3,356	68,151	310	-	-	7,041	-
OUTLYING AREAS.....	518	428	-	-	90	-	-	-	-
OFFICES ABOARD.....	1,437	1,437	-	-	-	-	-	-	-

NOTE: THE OBLIGATIONS OF THE TEN MAJOR R&D SUPPORTING AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 99 PERCENT OF TOTAL FEDERAL R&D PLANT OBLIGATIONS IN FY 1982.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-108. FEDERAL OBLIGATIONS FOR R&D PLANT, BY GEOGRAPHIC DIVISION, STATE, AND AGENCY: FISCAL YEAR 1982
(THOUSANDS OF DOLLARS)

GEOGRAPHIC DIVISION AND STATE	TOTAL	DEPT OF AGRICULTURE	DEPT OF COMMERCE	DEPT OF DEFENSE	DEPT OF ENERGY	DEPT OF HEALTH & HUMAN SERVICES	DEPT OF THE INTERIOR	DEPT OF TRANSPORTATION	ENVIRONMENTAL PROTECTION AGENCY	NATIONAL AERONAUTICS & SPACE ADMIN	NATIONAL SCIENCE FOUNDATION
TOTAL.....	1,380,109	21,469	1,039	290,500	914,028	24,684	1,289	11,900	-	113,700	1,500
NEW ENGLAND.....	50,566	96	-	24,575	25,283	612	-	-	-	-	-
CONNECTICUT.....	25,082	-	-	4,784	20,298	-	-	-	-	-	-
MAINE.....	16	16	-	-	-	-	-	-	-	-	-
MASSACHUSETTS.....	23,298	80	-	17,621	4,985	612	-	-	-	-	-
NEW HAMPSHIRE.....	90	-	-	90	-	-	-	-	-	-	-
RHODE ISLAND.....	2,080	-	-	2,080	-	-	-	-	-	-	-
VERMONT.....	-	-	-	-	-	-	-	-	-	-	-
MIDDLE ATLANTIC.....	173,063	2,017	-	11,770	151,111	2,565	-	5,100	-	-	1,500
NEW JERSEY.....	56,972	7	-	3,584	46,781	-	-	5,100	-	-	1,500
NEW YORK.....	64,953	1,246	-	3,645	58,497	1,565	-	-	-	-	-
PENNSYLVANIA.....	51,138	764	-	4,541	45,833	-	-	-	-	-	-
EAST NORTH CENTRAL.....	35	1,219	-	11,745	87,786	933	144	500	-	5,108	-
ILLINOIS.....	74,269	587	-	-	73,322	360	-	-	-	-	-
INDIANA.....	625	78	-	10	537	-	-	-	-	-	-
MICHIGAN.....	7,802	231	-	-	7,132	434	5	-	-	-	-
OHIO.....	23,745	216	-	11,735	6,186	-	-	500	-	5,108	-
WISCONSIN.....	994	107	-	-	609	139	-	-	-	-	-
WEST NORTH CENTRAL.....	11,248	3,593	-	5,365	1,830	460	-	-	-	-	-
IOWA.....	2,239	560	-	-	1,679	-	-	-	-	-	-
KANSAS.....	113	118	-	-	-	-	-	-	-	-	-
MINNESOTA.....	412	157	-	-	-	255	-	-	-	-	-
MISSOURI.....	5,673	103	-	5,365	-	205	-	-	-	-	-
NEBRASKA.....	703	703	-	-	-	-	-	-	-	-	-
NORTH DAKOTA.....	1,243	1,092	-	-	151	-	-	-	-	-	-
SOUTH DAKOTA.....	860	860	-	-	-	-	-	-	-	-	-
SOUTH ATLANTIC.....	237,928	5,581	886	99,670	69,349	18,766	706	-	-	42,970	-
DELAWARE.....	106	106	-	-	-	-	-	-	-	-	-
DISTRICT OF COLUMBIA.....	33,593	1,039	-	23,145	367	-	-	-	-	9,042	-
FLORIDA.....	31,792	979	-	11,211	-	449	-	-	-	19,153	-
GEORGIA.....	1,464	563	-	-	554	347	-	-	-	-	-
MARYLAND.....	82,241	2,543	886	54,139	1,761	17,352	-	-	-	5,560	-
NORTH CAROLINA.....	1,390	107	-	-	75	618	590	-	-	-	-
SOUTH CAROLINA.....	65,160	161	-	-	64,999	-	-	-	-	-	-
VIRGINIA.....	21,131	18	-	11,175	723	-	-	-	-	9,215	-
WEST VIRGINIA.....	1,051	65	-	-	870	-	116	-	-	-	-
EAST SOUTH CENTRAL.....	78,351	591	-	3,565	69,916	-	-	-	-	4,279	-
ALABAMA.....	5,831	54	-	-	3,338	-	-	-	-	2,439	-
KENTUCKY.....	1,441	22	-	-	1,419	-	-	-	-	-	-
MISSISSIPPI.....	5,891	496	-	3,555	-	-	-	-	-	1,840	-
TENNESSEE.....	65,188	19	-	10	65,159	-	-	-	-	-	-
WEST SOUTH CENTRAL.....	34,661	2,776	-	4,574	1,474	1,000	-	-	-	24,837	-
ARKANSAS.....	1,026	26	-	-	-	1,000	-	-	-	-	-
LOUISIANA.....	22,183	919	-	264	90	-	-	-	-	20,910	-
OKLAHOMA.....	1,206	436	-	-	770	-	-	-	-	-	-
TEXAS.....	10,246	1,395	-	4,310	614	-	-	-	-	3,927	-
MOUNTAIN.....	269,424	2,140	153	20,522	239,870	-	439	6,300	-	-	-
ARIZONA.....	407	297	-	110	-	-	-	-	-	-	-
COLORADO.....	16,571	423	153	6,921	2,774	-	-	6,300	-	-	-
IDaho.....	21,434	286	-	-	21,148	-	-	-	-	-	-
MONTANA.....	114	114	-	-	-	-	-	-	-	-	-
NEVADA.....	29,991	16	-	111	29,864	-	-	-	-	-	-
NEW MEXICO.....	196,600	240	-	10,430	185,580	-	350	-	-	-	-
UTAH.....	3,148	109	-	2,950	-	-	89	-	-	-	-
WYOMING.....	1,159	655	-	-	504	-	-	-	-	-	-
PACIFIC.....	415,478	3,028	-	107,277	267,319	1,348	-	-	-	36,506	-
ALASKA.....	13	13	-	-	-	-	-	-	-	-	-
CALIFORNIA.....	334,555	2,252	-	107,277	187,392	1,128	-	-	-	36,506	-
HAWAII.....	59	40	-	-	19	-	-	-	-	-	-
OREGON.....	80	80	-	-	-	-	-	-	-	-	-
WASHINGTON.....	80,771	643	-	-	79,908	220	-	-	-	-	-
OUTLYING AREAS.....	518	428	-	-	90	-	-	-	-	-	-
OFFICES ABROAD.....	1,437	-	-	1,437	-	-	-	-	-	-	-

NOTE: THE OBLIGATIONS OF THE TEN MAJOR R&D SUPPORTING AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 99 PERCENT OF TOTAL FEDERAL R&D PLANT OBLIGATIONS IN FY 1982.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-109. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS,
BY AGENCY: FISCAL YEARS 1982, 1983, AND 1984

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1982			ESTIMATES					
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
TOTAL, ALL AGENCIES	9,141,030	4,310,957	47.16	10,228,271	4,999,838	48.88	10,969,936	5,405,960	49.28
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	531,448	341,741	64.30	566,930	338,178	59.65	578,158	340,458	58.89
AGRICULTURAL COOPERATIVE SERVICE	1,450	957	66.00	1,416	807	56.99	1,360	992	72.94
AGRICULTURAL MARKETING SERVICE	1,180	885	75.00	1,543	1,079	69.93	-	-	-
AGRICULTURAL RESEARCH SERVICE	369,113	225,281	61.03	406,173	228,544	56.27	416,503	234,372	56.27
COOPERATIVE STATE RESEARCH SERVICE	7,692	7,692	100.00	7,121	7,121	100.00	6,976	6,976	100.00
ECONOMIC RESEARCH SERVICE	37,776	27,897	73.85	38,664	28,749	74.36	44,724	30,223	67.58
FOREST SERVICE	101,282	71,524	70.62	98,589	64,400	65.32	94,876	60,145	63.39
HUMAN NUTRITION INFORMATION SERVICE	4,170	2,400	58.54	3,800	2,200	57.89	3,800	2,300	60.53
OFF OF INTERNAT'L COOPERATION & DEV	1,381	598	43.30	1,446	621	42.95	1,393	600	43.07
OFFICE OF TRANSPORTATION	890	557	62.58	785	591	75.29	833	619	74.31
STATISTICAL REPORTING SERVICE	6,584	3,950	59.99	7,393	4,066	55.00	7,693	4,231	55.00
DEPARTMENT OF COMMERCE, TOTAL	241,757	156,938	64.92	242,119	138,790	57.32	193,704	122,821	63.41
BUREAU OF THE CENSUS	3,638	2,173	59.73	4,025	3,033	75.35	4,130	3,116	75.45
ECONOMIC DEVELOPMENT ADMINISTRATION	01	550	91.51	600	540	90.00	-	-	-
NATIONAL BUREAU OF STANDARDS	83,265	58,799	70.62	87,714	59,820	68.20	74,651	56,024	75.05
NAT'L OCEANIC & ATMOSPHERIC ADMIN	142,245	88,652	62.32	140,160	70,096	50.01	105,903	57,799	54.58
NAT'L TELECOMM & INFORMATION ADMIN	11,300	6,270	55.49	8,900	4,765	53.54	8,300	5,340	64.34
OFFICE OF THE SECRETARY	2	2	100.00	20	20	100.00	20	20	100.00
PATENT AND TRADEMARK OFFICE	706	492	69.69	700	516	73.71	700	522	74.57
DEPARTMENT OF DEFENSE, TOTAL	5,139,164	1,914,547	37.25	6,052,072	2,546,753	42.08	6,881,282	2,991,083	43.47
DEPARTMENT OF THE ARMY	1,433,483	676,840	47.22	1,609,173	725,544	45.09	1,985,607	889,877	44.82
DEPARTMENT OF THE NAVY	1,598,491	795,980	49.80	1,766,524	877,830	49.69	1,888,615	937,227	49.63
DEPARTMENT OF THE AIR FORCE	1,584,172	183,866	11.61	1,875,540	554,428	29.56	1,795,883	568,086	31.63
DEFENSE AGENCIES	489,497	256,611	52.42	742,346	387,576	52.21	1,161,218	594,443	51.19
DIRECTOR OF TEST & EVALUATION, DEFENSE	33,521	1,250	3.73	58,489	1,375	2.35	49,959	1,450	2.90
DEPARTMENT OF EDUCATION	18,868	14,073	74.59	15,221	13,935	91.55	14,489	13,858	95.64
DEPARTMENT OF ENERGY	175,611	89,655	51.05	195,142	54,839	28.10	148,369	66,973	45.14
DEPT OF HLTH & HUMAN SERVICES, TOTAL	946,408	423,639	44.76	1,046,129	439,282	41.99	1,075,482	447,628	41.62
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	89,656	47,636	53.13	109,848	52,292	47.60	115,317	53,910	46.75
CENTERS FOR DISEASE CONTROL	54,219	46,032	84.90	54,359	46,151	84.90	57,751	49,031	84.90
FOOD & DRUG ADMINISTRATION	64,579	41,976	65.00	68,600	44,590	65.00	73,800	47,970	65.00
HEALTH CARE FINANCING ADMIN	1,518	303	19.96	1,583	315	19.90	1,583	320	20.21
HEALTH RESOURCES AND SERVICES ADMINISTRATION	1,302	966	74.19	4,850	4,700	96.91	1,200	1,200	100.00
HUMAN DEVELOPMENT SERVICES	2,949	1,670	56.63	2,748	1,736	63.17	1,291	945	73.20
NATIONAL INSTITUTES OF HEALTH	700,113	266,991	37.65	780,393	269,980	34.60	797,283	274,052	34.37
OFFICE OF ASST'T SECY FOR HEALTH	8,164	5,291	64.81	8,372	5,442	65.00	9,001	5,851	65.00
OFFICE OF THE SECRETARY	2,468	969	39.26	2,250	1,100	48.89	2,095	848	40.48
SOCIAL SECURITY ADMINISTRATION	12,440	11,805	94.90	13,126	12,976	98.86	16,161	13,501	83.54
DEPT OF HOUSING & URBAN DEVELOPMENT	17,191	7,981	46.43	17,926	8,586	47.90	15,216	7,280	47.84
DEPARTMENT OF THE INTERIOR, TOTAL	260,976	173,548	66.50	280,373	197,979	70.61	240,080	154,267	64.26
BUREAU OF LAND MANAGEMENT	3,380	2,386	70.59	5,610	3,750	66.84	5,434	3,750	69.01
BUREAU OF MINES	61,086	47,800	78.25	76,627	60,780	79.32	58,405	47,800	81.84
BUREAU OF RECLAMATION	6,442	4,520	70.16	7,565	5,250	69.40	7,305	5,117	70.05
GEOLOGICAL SURVEY	139,367	78,311	56.19	139,328	85,115	61.09	127,296	77,129	60.59
MINERAL MANAGEMENT SERVICE	-	-	-	750	600	80.00	750	600	80.00
NATIONAL PARK SERVICE	9,358	8,392	89.68	9,856	8,870	90.00	9,750	8,775	90.00
OFFICE OF THE SECRETARY	44	44	100.00	51	51	100.00	146	146	100.00
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	994	350	35.21	465	423	90.97	640	220	34.38
OFFICE OF WATER RESCH & TECHNOLOGY	1,990	1,493	75.03	1,233	986	79.97	-	-	-
US FISH & WILDLIFE SERVICE	38,315	30,252	78.96	38,888	32,154	82.68	30,354	10,730	35.35
DEPARTMENT OF JUSTICE, TOTAL	3,494	1,872	53.58	3,620	1,839	50.80	3,090	1,713	55.44
DRUG ENFORCEMENT ADMINISTRATION	800	200	25.00	800	200	25.00	600	200	33.33
FEDERAL BUREAU OF INVESTIGATION	275	275	100.00	275	275	100.00	275	275	100.00
FEDERAL PRISON SYSTEM	900	900	100.00	900	900	100.00	900	900	100.00
IMMIGRATION & NATURALIZATION SVC	100	100	100.00	100	100	100.00	100	100	100.00
OFF OF JUSTICE ASSIST, RSCH, & STAT	1,414	395	27.93	1,535	356	23.19	1,209	235	19.44
OFFICE OF LEGAL POLICY	5	2	40.00	10	8	80.00	6	3	50.00
DEPARTMENT OF LABOR, TOTAL	6,097	3,918	64.26	5,326	4,035	75.76	5,636	4,340	77.00
BUREAU OF LABOR STATISTICS	291	262	90.03	315	284	90.16	377	340	90.19
EMPLOYMENT STANDARDS ADMINISTRATION	1,170	800	68.38	1,000	800	80.00	1,050	800	76.19
EMPLOYMENT AND TRAINING ADMIN	1,971	752	38.15	1,802	742	41.18	1,766	757	42.87
LABOR-MANAGEMENT SERVICES ADMIN	715	715	100.00	751	751	100.00	786	786	100.00
OCCUPATIONAL SAFETY & HEALTH ADMIN	961	400	41.62	400	400	100.00	400	400	100.00
OFFICE OF THE SECRETARY	900	900	100.00	1,000	1,000	100.00	1,200	1,200	100.00
PENSION BENEFIT GUARANTEE CORPORATION	89	89	100.00	58	58	100.00	57	57	100.00

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TABLE C-109. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS,
BY AGENCY: FISCAL YEARS 1982, 1983, AND 1984

(THOUSANDS OF DOLLARS)

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AGENCY AND SUBDIVISION	ACTUAL, 1982			ESTIMATES					
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	1983			1984		
				TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
DEPARTMENT OF STATE, TOTAL	800	632	79.00	816	637	78.06	820	642	78.29
DEPARTMENTAL FUNDS	800	632	79.00	816	637	78.06	820	642	78.29
DEPARTMENT OF TRANSPORTATION, TOTAL ..	75,654	37,396	49.43	84,209	42,876	50.92	81,976	41,144	50.19
COAST GUARD	10,854	2,171	20.00	10,861	2,173	20.01	11,948	2,390	20.00
FEDERAL AVIATION ADMINISTRATION	22,492	12,371	55.00	33,974	18,685	55.00	38,221	21,022	55.00
FEDERAL HIGHWAY ADMINISTRATION	1,763	1,490	84.52	1,990	1,590	79.90	1,050	735	70.00
FEDERAL RAILROAD ADMINISTRATION	8,760	5,223	59.62	9,109	5,101	56.00	5,236	2,932	56.00
MARITIME ADMINISTRATION	1,500	450	30.00	1,500	762	50.80	1,000	500	50.00
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	11,246	5,630	50.06	8,594	5,065	58.94	8,392	4,961	59.12
OFFICE OF THE SECRETARY	2,811	2,397	85.27	2,509	2,280	90.87	3,374	2,589	76.73
RESEARCH & SPECIAL PROGRAMS ADMIN ..	4,311	2,897	67.20	3,260	2,256	69.20	3,200	2,193	68.53
URBAN MASS TRANSPORTATION ADMIN	11,917	4,767	40.00	12,412	4,964	39.99	9,555	3,822	40.00
DEPARTMENT OF THE TREASURY, TOTAL	7,933	5,772	72.76	8,354	6,314	75.58	8,103	6,217	76.72
BUREAU OF ENGRAVING AND PRINTING ...	2,816	1,081	38.39	2,905	1,373	47.26	3,041	1,553	51.07
INTERNAL REVENUE SERVICE	4,965	4,567	91.98	5,344	4,916	91.99	4,970	4,572	91.99
OFFICE OF PROTECTIVE RESEARCH	-	-	-	5	5	100.00	5	5	100.00
UNITED STATES CUSTOMS SERVICE	152	124	81.58	100	20	20.00	87	87	100.00
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	2,033	1,118	54.99	1,956	1,184	60.53	2,036	1,216	59.72
AGENCY FOR INTERNAT'L DEVELOPMENT	13,451	12,026	89.41	10,795	7,730	71.61	11,120	8,010	72.03
APPALACHIAN REGIONAL COMMISSION	100	70	70.00	30	21	70.00	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	199	69	34.67	493	60	12.17	471	72	15.29
ENVIRONMENTAL PROTECTION AGENCY	129,453	67,896	52.45	103,309	66,517	64.39	87,460	60,090	68.71
FEDERAL COMMUNICATIONS COMMISSION	1,147	1,147	100.00	1,086	1,086	100.00	952	952	100.00
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	3,789	1,781	47.00	919	432	47.01	3,250	1,528	47.02
FEDERAL HOME LOAN BANK BOARD	2,588	1,823	70.44	2,788	1,841	66.03	2,903	1,863	64.17
FEDERAL TRADE COMMISSION	1,188	1,010	85.02	1,739	1,478	84.99	1,688	1,435	85.01
GENERAL SERVICES ADMINISTRATION	1,009	757	75.02	398	299	75.13	854	590	69.09
INTERNATIONAL TRADE COMMISSION	3,764	2,898	76.99	3,989	3,072	77.01	4,385	3,376	76.99
LIBRARY OF CONGRESS	5,282	3,282	62.14	5,577	3,627	65.03	5,648	3,780	66.93
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,165,551	823,684	70.67	1,155,388	868,838	75.20	1,168,341	875,788	74.96
NATIONAL SCIENCE FOUNDATION	118,254	46,211	39.08	130,650	48,785	37.34	137,929	48,170	34.92
NUCLEAR REGULATORY COMMISSION	20,914	12,560	60.06	20,919	13,360	63.87	19,600	12,130	61.89
SMITHSONIAN INSTITUTION	52,357	32,956	62.94	55,749	36,212	64.96	63,618	37,727	59.30
TENNESSEE VALLEY AUTHORITY	59,211	47,369	80.00	51,605	41,282	80.00	53,899	43,119	80.00
US ARMS CONTROL & DISARMAMENT AGENCY ..	246	157	63.82	104	50	48.08	540	250	46.30
UNITED STATES INFORMATION AGENCY	99	65	65.66	1,500	990	66.00	475	399	84.00
VETERANS ADMINISTRATION	134,994	82,366	61.01	161,040	108,931	67.64	158,362	107,041	67.59

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-110. FEDERAL OBLIGATIONS FOR TOTAL BASIC RESEARCH TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS,
BY AGENCY: FISCAL YEARS 1982, 1983, AND 1984

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1982			ESTIMATES					
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	1983			1984		
				TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
TOTAL, ALL AGENCIES	1,465,534	780,890	53.28	1,650,367	862,927	52.29	1,774,289	915,855	51.62
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	218,724	139,431	63.75	242,876	142,458	58.65	262,762	152,729	58.12
AGRICULTURAL RESEARCH SERVICE	175,091	106,866	61.03	197,760	111,422	56.34	216,050	121,726	56.34
COOPERATIVE STATE RESEARCH SERVICE	3,155	3,155	100.00	2,956	2,956	100.00	2,987	2,987	100.00
ECONOMIC RESEARCH SERVICE	3,778	2,790	73.85	3,896	2,874	73.77	4,502	3,023	67.15
FOREST SERVICE	33,311	24,676	74.08	34,604	23,184	67.00	35,360	22,855	64.64
OFF OF INTERNAT'L COOPERATION & DEV	608	263	43.26	636	273	42.92	613	264	43.07
OFFICE OF TRANSPORTATION	481	301	62.58	424	319	75.24	450	334	74.22
STATISTICAL REPORTING SERVICE	2,300	1,380	60.00	2,600	1,430	55.00	2,800	1,540	55.00
DEPARTMENT OF COMMERCE, TOTAL	15,672	11,748	74.96	16,376	11,735	71.66	14,989	11,910	79.46
BUREAU OF THE CENSUS	160	123	76.87	180	139	77.22	182	145	79.67
NATIONAL BUREAU OF STANDARDS	15,510	11,623	74.94	16,186	11,586	71.58	14,797	11,755	79.44
OFFICE OF THE SECRETARY	2	2	100.00	10	10	100.00	10	10	100.00
DEPARTMENT OF DEFENSE, TOTAL	245,524	142,503	58.04	256,522	145,659	56.78	274,252	156,274	56.98
DEPARTMENT OF THE ARMY	102,904	64,561	62.74	103,833	61,891	59.61	113,308	67,529	59.60
DEPARTMENT OF THE NAVY	95,226	45,480	47.76	100,135	47,824	47.76	103,609	49,484	47.76
DEPARTMENT OF THE AIR FORCE	37,490	26,140	69.73	40,520	28,252	69.72	44,600	31,000	69.51
DEFENSE AGENCIES	9,904	6,322	63.83	12,034	7,692	63.92	12,735	8,261	64.87
DEPARTMENT OF EDUCATION	2,536	2,265	89.31	2,243	2,186	97.46	2,243	2,186	97.46
DEPARTMENT OF ENERGY	6,969	2,456	35.24	7,125	3,151	44.22	8,215	4,021	48.95
DEPT OF HLTH & HUMAN SERVICES, TOTAL ..	462,051	182,951	39.60	520,591	189,559	36.41	536,255	193,751	36.13
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	53,766	28,049	52.17	66,241	31,068	46.90	69,145	31,833	46.04
HEALTH RESOURCES AND SERVICES ADMINISTRATION	600	600	100.00	600	600	100.00	600	600	100.00
HUMAN DEVELOPMENT SERVICES	34	34	100.00	35	35	100.00	35	35	100.00
NATIONAL INSTITUTES OF HEALTH	404,793	152,416	37.65	450,785	155,951	34.60	463,253	159,235	34.37
OFFICE OF ASST'T SECY FOR HEALTH ..	2,858	1,852	64.80	2,930	1,905	65.02	3,222	2,048	63.56
DEPARTMENT OF THE INTERIOR, TOTAL	64,690	40,137	62.05	84,520	57,733	68.31	84,720	59,132	69.80
BUREAU OF MINES	11,472	9,800	85.43	24,358	20,736	85.13	29,601	25,200	85.13
BUREAU OF RECLAMATION	90	70	77.78	90	70	77.78	135	100	74.07
GEOLOGICAL SURVEY	49,610	27,876	56.19	56,848	34,728	61.09	52,411	31,796	60.59
OFFICE OF THE SECRETARY	44	44	100.00	51	51	100.00	146	146	100.00
OFFICE OF WATER RSCH & TECHNOLOGY ..	597	448	75.04	273	218	79.85	-	-	-
US FISH & WILDLIFE SERVICE	2,877	1,899	66.01	2,900	1,930	66.55	2,427	1,930	79.52
DEPARTMENT OF JUSTICE, TOTAL	90	26	28.89	106	30	28.30	91	18	19.78
DRUG ENFORCEMENT ADMINISTRATION	-	-	-	0	0	M/A	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT ..	90	26	28.89	106	30	28.30	91	18	19.78
DEPARTMENT OF LABOR, TOTAL	1,440	474	32.92	1,106	106	9.58	1,104	108	9.78
EMPLOYMENT AND TRAINING ADMIN	1,440	474	32.92	1,106	106	9.58	1,104	108	9.78
DEPARTMENT OF TRANSPORTATION, TOTAL ..	200	50	25.00	363	201	55.37	389	138	35.48
COAST GUARD	-	-	-	163	33	20.25	189	38	20.11
MARITIME ADMINISTRATION	200	50	25.00	200	168	84.00	200	100	50.00
DEPARTMENT OF THE TREASURY, TOTAL	2,076	1,910	92.00	2,547	2,343	91.99	2,743	2,523	91.98
INTERNAL REVENUE SERVICE	2,076	1,910	92.00	2,547	2,343	91.99	2,743	2,523	91.98
OTHER AGENCIES									
ENVIRONMENTAL PROTECTION AGENCY	11,028	6,518	59.10	8,603	5,896	68.53	7,743	5,365	69.29
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	690	324	46.96	-	-	-	-	-	-
FEDERAL TRADE COMMISSION	1,009	850	84.24	1,478	1,256	84.98	1,435	1,220	85.02
LIBRARY OF CONGRESS	148	58	39.19	251	88	35.06	284	122	42.96
NATIONAL AERONAUTICS & SPACE ADMIN ...	250,670	161,533	64.44	304,734	204,997	67.27	360,400	229,635	63.72
NATIONAL SCIENCE FOUNDATION	112,160	42,506	37.90	124,477	44,885	36.06	132,246	44,470	33.63
SMITHSONIAN INSTITUTION	52,357	32,956	62.94	55,749	36,212	64.96	63,618	37,727	59.30
TENNESSEE VALLEY AUTHORITY	4,600	3,680	80.00	5,500	4,400	80.00	5,700	4,560	80.00
VETERANS ADMINISTRATION	12,900	8,514	66.00	15,200	10,032	66.00	15,100	9,966	66.00

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-111. FEDERAL OBLIGATIONS FOR TOTAL APPLIED RESEARCH TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS,
BY AGENCY: FISCAL YEARS 1982, 1983, AND 1984

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1982			ESTIMATES					
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
TOTAL, ALL AGENCIES	2,728,671	1,713,586	62.80	2,926,600	1,880,516	64.26	2,862,287	1,854,138	64.78
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	284,236	184,793	65.01	296,657	180,136	60.72	288,909	172,718	59.78
AGRICULTURAL COOPERATIVE SERVICE ...	1,450	957	66.00	1,416	807	56.79	1,360	992	72.94
AGRICULTURAL MARKETING SERVICE	943	707	74.97	1,250	874	69.92	-	-	-
AGRICULTURAL RESEARCH SERVICE	170,456	104,040	61.04	185,178	104,106	56.22	177,182	99,610	56.22
COOPERATIVE STATE RESEARCH SERVICE	4,537	4,537	100.00	4,165	4,165	100.00	3,989	3,989	100.00
ECONOMIC RESEARCH SERVICE	33,998	25,107	73.85	34,768	25,875	74.42	40,222	27,200	67.62
FOREST SERVICE	63,485	43,988	69.29	60,310	38,962	64.60	56,494	35,425	62.71
HUMAN NUTRITION INFORMATION SERVICE	4,100	2,400	58.54	3,800	2,200	57.89	3,800	2,300	60.53
OFF OF INTERNAT'L COOPERATION & DEV	663	287	43.29	694	298	42.94	669	288	43.05
OFFICE OF TRANSPORTATION	320	200	62.50	283	213	75.27	300	223	74.33
STATISTICAL REPORTING SERVICE	4,284	2,570	59.99	4,793	2,636	55.00	4,893	2,691	55.00
DEPARTMENT OF COMMERCE, TOTAL	182,347	117,196	64.27	184,782	100,969	54.64	150,146	89,319	59.49
BUREAU OF THE CENSUS	1,561	977	62.59	1,690	1,239	73.31	1,735	1,271	73.26
ECONOMIC DEVELOPMENT ADMINISTRATION	171	120	70.18	200	140	70.00	-	-	-
NATIONAL BUREAU OF STANDARDS	55,972	38,971	69.63	60,219	41,082	68.22	53,205	40,034	75.24
NAT'L OCEANIC & ATMOSPHERIC ADMIN	114,543	71,528	62.45	114,763	54,268	47.29	87,896	43,304	49.27
NAT'L TELECOMM & INFORMATION ADMIN	10,100	5,600	55.45	7,900	4,230	53.54	7,300	4,700	64.38
OFFICE OF THE SECRETARY	-	-	-	10	10	100.00	10	10	100.00
DEPARTMENT OF DEFENSE, TOTAL	814,227	532,029	65.34	854,591	558,515	65.35	895,605	576,530	64.37
DEPARTMENT OF THE ARMY	287,817	174,176	60.52	271,480	169,271	62.35	300,563	183,197	60.95
DEPARTMENT OF THE NAVY	191,698	121,997	63.64	200,202	127,409	63.64	205,902	131,036	63.64
DEPARTMENT OF THE AIR FORCE	140,591	130,966	93.15	144,009	135,576	94.14	148,906	140,186	94.14
DEFENSE AGENCIES	194,121	104,890	54.03	238,900	126,259	52.85	240,234	122,111	50.83
DEPARTMENT OF EDUCATION	7,243	4,452	61.47	5,073	4,613	90.93	4,881	4,568	93.59
DEPARTMENT OF ENERGY	60,793	24,389	40.12	99,956	38,815	38.83	62,554	27,787	44.42
DEPT OF HLTH & HUMAN SERVICES, TOTAL	419,552	215,675	51.41	455,572	223,767	49.12	471,061	229,477	48.71
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	34,340	18,831	54.84	42,431	20,650	48.67	44,747	21,382	47.78
CENTERS FOR DISEASE CONTROL	54,219	46,032	84.90	54,359	46,151	84.90	57,751	49,031	84.90
FOOD & DRUG ADMINISTRATION	64,579	41,976	65.00	68,600	44,590	65.00	73,800	47,970	65.00
HEALTH CARE FINANCING ADMIN	1,518	303	19.96	1,583	315	19.90	1,583	320	20.21
HEALTH RESOURCES AND SERVICES ADMINISTRATION	600	254	44.00	2,750	2,600	94.55	600	600	100.00
HUMAN DEVELOPMENT SERVICES	1,093	874	79.96	1,092	909	83.24	220	220	100.00
NATIONAL INSTITUTES OF HEALTH	244,134	91,924	37.65	265,211	91,751	34.60	269,601	92,671	34.37
OFFICE OF ASST'T SECY FOR HLTH	4,163	2,698	64.81	4,270	2,775	64.99	4,603	2,984	64.83
OFFICE OF THE SECRETARY	2,466	968	39.25	2,150	1,050	48.84	1,995	798	40.00
SOCIAL SECURITY ADMINISTRATION	12,440	11,805	94.90	13,126	12,976	98.86	16,161	13,501	83.54
DEPT OF HOUSING & URBAN DEVELOPMENT	9,073	5,168	56.96	10,504	5,988	57.01	8,878	5,061	57.01
DEPARTMENT OF THE INTERIOR, TOTAL	174,805	118,103	67.56	171,870	124,748	72.58	139,218	84,258	60.52
BUREAU OF LAND MANAGEMENT	680	486	71.47	1,150	750	65.22	934	650	69.59
BUREAU OF MINES	41,600	33,200	79.81	44,036	35,144	79.81	27,052	21,600	79.85
BUREAU OF RECLAMATION	6,047	4,200	69.46	7,219	5,000	69.26	6,860	4,800	69.97
GEOLOGICAL SURVEY	89,747	50,429	56.19	82,480	50,387	61.09	74,885	45,373	60.59
MINERAL MANAGEMENT SERVICE	-	-	-	750	600	80.00	750	600	80.00
NATIONAL PARK SERVICE	9,358	8,392	89.68	9,856	8,870	90.00	9,750	8,775	90.00
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	994	350	35.21	465	423	90.97	640	220	34.38
OFFICE OF WATER RSCH & TECHNOLOGY	1,194	895	74.96	750	600	80.00	-	-	-
US FISH & WILDLIFE SERVICE	25,185	20,151	80.01	25,164	22,974	91.30	18,347	2,240	12.21
DEPARTMENT OF JUSTICE, TOTAL	1,241	788	63.50	1,112	738	66.37	947	668	70.54
DRUG ENFORCEMENT ADMINISTRATION	400	100	25.00	200	100	50.00	200	100	50.00
FEDERAL PRISON SYSTEM	475	475	100.00	475	475	100.00	475	475	100.00
IMMIGRATION & NATURALIZATION SVC	50	50	100.00	50	50	100.00	50	50	100.00
OFF OF JUSTICE ASSIST, RSCH, & STAT	312	162	51.92	381	109	28.61	218	42	19.27
OFFICE OF LEGAL POLICY	4	1	25.00	6	4	66.67	4	1	25.00
DEPARTMENT OF LABOR, TOTAL	4,306	3,305	76.75	4,024	3,733	92.77	4,335	4,035	93.08
BUREAU OF LABOR STATISTICS	291	262	90.03	315	284	90.16	377	340	90.19
EMPLOYMENT STANDARDS ADMINISTRATION	1,170	800	68.38	1,000	800	80.00	1,050	800	76.19
EMPLOYMENT AND TRAINING ADMIN	214	173	80.84	537	477	88.83	500	487	97.40
LABOR-MANAGEMENT SERVICES ADMIN	715	715	100.00	751	751	100.00	786	786	100.00
OCCUPATIONAL SAFETY & HEALTH ADMIN	961	400	41.62	400	400	100.00	400	400	100.00
OFFICE OF THE SECRETARY	900	900	100.00	1,000	1,000	100.00	1,200	1,200	100.00
PENSION BENEFIT GUARANTEE CORPORATION	55	55	100.00	21	21	100.00	22	22	100.00

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TABLE C-111. FEDERAL OBLIGATIONS FOR TOTAL APPLIED RESEARCH TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS,
BY AGENCY: FISCAL YEARS 1982, 1983, AND 1984

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	ACTUAL, 1982			ESTIMATES					
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	1983			1984		
				TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
DEPARTMENT OF STATE, TOTAL	800	632	79.00	816	637	78.06	820	642	78.29
DEPARTMENTAL FUNDS	800	632	79.00	816	637	78.06	820	642	78.29
DEPARTMENT OF TRANSPORTATION, TOTAL ..	18,580	10,146	54.61	20,017	11,376	56.83	18,198	9,494	52.17
COAST GUARD	896	179	19.98	733	147	20.05	1,901	380	19.99
FEDERAL AVIATION ADMINISTRATION	1,540	847	55.00	2,750	1,512	54.98	3,094	1,702	55.01
FEDERAL HIGHWAY ADMINISTRATION	890	890	100.00	990	990	100.00	50	35	70.00
FEDERAL RAILROAD ADMINISTRATION	2,418	1,354	56.00	3,009	1,685	56.00	1,711	958	55.99
MARITIME ADMINISTRATION	700	200	28.57	700	424	60.57	400	200	50.00
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	6,580	4,277	65.00	6,976	4,584	65.71	6,854	4,504	65.71
OFFICE OF THE SECRETARY	143	10	6.99	113	10	8.85	321	25	7.79
RESEARCH & SPECIAL PROGRAMS ADMIN ..	1,600	864	54.00	900	486	54.00	1,000	543	54.30
URBAN MASS TRANSPORTATION ADMIN	3,813	1,525	39.99	3,846	1,538	39.99	2,867	1,147	40.01
DEPARTMENT OF THE TREASURY, TOTAL	4,455	3,158	70.89	4,434	3,212	72.44	3,971	2,814	70.86
BUREAU OF ENGRAVING AND PRINTING ...	1,637	590	36.04	1,757	749	42.63	1,833	847	46.21
INTERNAL REVENUE SERVICE	2,770	2,548	91.99	2,677	2,463	92.01	2,138	1,967	92.00
UNITED STATES CUSTOMS SERVICE	48	20	41.67	-	-	-	-	-	-
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	2,033	1,118	54.99	1,956	1,184	60.53	2,036	1,216	59.72
AGENCY FOR INTERNAT'L DEVELOPMENT	7,160	6,301	88.00	8,440	6,160	72.99	8,720	6,360	72.94
APPALACHIAN REGIONAL COMMISSION	50	35	70.00	30	21	70.00	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	56	6	10.71	302	24	7.95	107	18	16.82
ENVIRONMENTAL PROTECTION AGENCY	82,849	46,237	55.81	65,714	45,979	69.97	57,171	42,221	73.85
FEDERAL COMMUNICATIONS COMMISSION	1,147	1,147	100.00	1,086	1,086	100.00	952	952	100.00
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	3,099	1,457	47.02	919	432	47.01	3,250	1,528	47.02
FEDERAL HOME LOAN BANK BOARD	2,588	1,823	70.44	2,788	1,841	66.03	2,903	1,863	64.17
FEDERAL TRADE COMMISSION	179	160	89.39	261	222	85.06	253	215	84.98
GENERAL SERVICES ADMINISTRATION	537	403	75.05	145	109	75.17	228	120	52.63
INTERNATIONAL TRADE COMMISSION	3,764	2,898	76.99	3,989	3,072	77.01	4,385	3,376	76.99
LIBRARY OF CONGRESS	712	400	56.18	870	474	54.48	919	530	57.67
NATIONAL AERONAUTICS & SPACE ADMIN ...	501,171	346,350	69.11	567,012	451,804	79.68	573,532	481,590	83.97
NATIONAL SCIENCE FOUNDATION	6,089	3,700	60.77	6,173	3,900	63.18	5,683	3,700	65.11
NUCLEAR REGULATORY COMMISSION	20,914	12,560	60.06	20,919	13,360	63.87	19,600	12,130	61.89
TENNESSEE VALLEY AUTHORITY	5,366	4,293	80.00	6,203	4,960	79.96	5,073	4,058	79.99
US ARMS CONTROL & DISARMAMENT AGENCY ..	189	100	52.91	104	50	48.08	540	250	46.30
VETERANS ADMINISTRATION	109,110	64,764	59.36	130,281	88,591	68.00	127,412	86,640	68.00

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-112. FEDERAL OBLIGATIONS FOR TOTAL DEVELOPMENT TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS,
BY AGENCY: FISCAL YEARS 1982, 1983, AND 1984

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1982			ESTIMATES					
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	1983 TOTAL	1983 PERSONNEL COSTS	1983 PERCENT OF TOTAL	1984 TOTAL	1984 PERSONNEL COSTS	1984 PERCENT OF TOTAL
TOTAL, ALL AGENCIES	4,946,825	1,816,481	36.72	5,651,304	2,256,395	39.93	6,333,360	2,635,967	41.62
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	28,488	17,517	61.49	27,397	15,584	56.88	26,487	15,011	56.67
AGRICULTURAL MARKETING SERVICE	237	178	75.11	293	205	69.97	-	-	-
AGRICULTURAL RESEARCH SERVICE	23,566	14,375	61.00	23,235	13,016	56.02	23,271	13,036	56.02
FOREST SERVICE	4,486	2,640	63.75	3,675	2,254	61.33	3,022	1,865	61.71
OFF OF INTERNAT'L COOPERATION & DEV	110	48	43.64	116	50	43.10	111	48	43.24
OFFICE OF TRANSPORTATION	89	56	62.92	78	59	75.64	83	62	74.70
DEPARTMENT OF COMMERCE, TOTAL	43,738	27,994	64.00	40,961	26,086	63.68	28,569	21,592	75.58
BUREAU OF THE CENSUS	1,917	1,073	55.97	2,155	1,655	76.80	2,213	1,700	76.82
ECONOMIC DEVELOPMENT ADMINISTRATION	430	430	100.00	400	400	100.00	-	-	-
NATIONAL BUREAU OF STANDARDS	11,783	8,205	69.63	11,309	7,152	63.24	6,649	4,235	63.69
NAT'L OCEANIC & ATMOSPHERIC ADMIN	27,702	17,124	61.82	25,397	15,828	62.32	18,007	14,495	80.50
NAT'L TELECOMM & INFORMATION ADMIN	1,200	670	55.83	1,000	535	53.50	1,000	640	64.00
PATENT AND TRADEMARK OFFICE	706	492	69.69	700	516	73.71	700	522	74.57
DEPARTMENT OF DEFENSE, TOTAL	4,079,413	1,240,015	30.40	4,940,959	1,842,579	37.29	5,711,425	2,258,279	39.54
DEPARTMENT OF THE ARMY	1,042,762	438,103	42.01	1,233,860	494,382	40.07	1,571,736	639,151	40.67
DEPARTMENT OF THE NAVY	1,311,567	628,503	47.92	1,466,187	702,597	47.92	1,579,104	756,707	47.92
DEPARTMENT OF THE AIR FORCE	1,406,091	26,760	1.90	1,691,011	390,600	23.10	1,602,377	396,900	24.77
DEFENSE AGENCIES	285,472	145,399	50.93	491,412	253,625	51.61	908,249	464,071	51.10
DIRECTOR OF TEST & EVALUATION, DEFENSE	33,521	1,250	3.73	58,489	1,375	2.35	49,959	1,450	2.90
DEPARTMENT OF EDUCATION	9,089	7,356	80.93	7,905	7,136	90.27	7,365	7,104	96.46
DEPARTMENT OF ENERGY	107,849	62,810	58.24	88,061	12,873	14.62	77,600	35,165	45.32
DEPT OF HLTH & HUMAN SERVICES, TOTAL	64,805	25,013	38.60	69,966	25,956	37.10	68,166	24,400	35.79
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	1,550	756	48.77	1,176	574	48.81	1,425	695	48.77
HEALTH RESOURCES AND SERVICES ADMINISTRATION	102	102	100.00	1,500	1,500	100.00	-	-	-
HUMAN DEVELOPMENT SERVICES	1,822	762	41.82	1,621	792	48.86	1,036	690	66.60
NATIONAL INSTITUTES OF HEALTH	60,186	22,651	37.63	64,397	22,278	34.59	64,429	22,146	34.37
OFFICE OF ASST'T SECY FOR HEALTH	1,143	741	64.83	1,172	762	65.02	1,176	819	69.64
OFFICE OF THE SECRETARY	2	1	50.00	100	50	50.00	100	50	50.00
DEPT OF HOUSING & URBAN DEVELOPMENT	8,118	2,813	34.65	7,422	2,598	35.00	6,338	2,219	35.01
DEPARTMENT OF THE INTERIOR, TOTAL	21,481	15,308	71.26	23,983	15,498	64.62	16,142	10,877	67.38
BUREAU OF LAND MANAGEMENT	2,700	1,900	70.37	4,460	3,000	67.26	4,500	3,100	68.89
BUREAU OF MINES	8,014	4,800	59.90	8,233	4,900	59.52	1,752	1,000	57.08
BUREAU OF RECLAMATION	305	250	81.97	256	180	70.31	310	217	70.00
GEOLOGICAL SURVEY	10	6	60.00	-	-	-	-	-	-
OFFICE OF WATER RESCH & TECHNOLOGY	199	150	75.38	210	168	80.00	-	-	-
US FISH & WILDLIFE SERVICE	10,253	8,202	80.00	10,824	7,250	66.98	9,580	6,560	68.48
DEPARTMENT OF JUSTICE, TOTAL	2,163	1,058	48.91	2,402	1,071	44.59	2,052	1,027	50.05
DRUG ENFORCEMENT ADMINISTRATION	400	100	25.00	600	100	16.67	400	100	25.00
FEDERAL BUREAU OF INVESTIGATION	275	275	100.00	275	275	100.00	275	275	100.00
FEDERAL PRISON SYSTEM	425	425	100.00	425	425	100.00	425	425	100.00
IMMIGRATION & NATURALIZATION SVC	50	50	100.00	50	50	100.00	50	50	100.00
OFF OF JUSTICE ASSIST, RSCH, & STAT	1,012	207	20.45	1,048	217	20.71	900	175	19.44
OFFICE OF LEGAL POLICY	1	1	100.00	4	4	100.00	2	2	100.00
DEPARTMENT OF LABOR, TOTAL	351	139	39.60	196	196	100.00	197	197	100.00
EMPLOYMENT AND TRAINING ADMIN	317	105	33.12	159	159	100.00	162	162	100.00
PENSION BENEFIT GUARANTEE CORPORATION	34	34	100.00	37	37	100.00	35	35	100.00

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TABLE C-112. FEDERAL OBLIGATIONS FOR TOTAL DEVELOPMENT TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS,
BY AGENCY: FISCAL YEARS 1982, 1983, AND 1984

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	ACTUAL, 1982			ESTIMATES					
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	1983			1984		
				TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
DEPARTMENT OF TRANSPORTATION, TOTAL ..	56,874	27,200	47.83	63,829	31,299	49.04	63,389	31,512	49.71
COAST GUARD	9,958	1,992	20.00	9,965	1,993	20.00	9,858	1,972	20.00
FEDERAL AVIATION ADMINISTRATION	20,952	11,524	55.00	31,224	17,173	55.00	35,127	19,320	55.00
FEDERAL HIGHWAY ADMINISTRATION	873	600	68.73	1,000	600	60.00	1,000	700	70.00
FEDERAL RAILROAD ADMINISTRATION	6,342	3,869	61.01	6,100	3,416	56.00	3,525	1,974	56.00
MARITIME ADMINISTRATION	600	200	33.33	600	170	28.33	400	200	50.00
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN ..	4,666	1,353	29.00	1,618	481	29.73	1,538	457	29.71
OFFICE OF THE SECRETARY	2,668	2,387	89.47	2,396	2,270	94.74	3,053	2,564	83.98
RESEARCH & SPECIAL PROGRAMS ADMIN ..	2,711	2,033	74.99	2,360	1,770	75.00	2,200	1,650	75.00
URBAN MASS TRANSPORTATION ADMIN	8,104	3,242	40.00	8,566	3,426	40.00	6,688	2,675	40.00
DEPARTMENT OF THE TREASURY, TOTAL	1,402	704	50.21	1,373	759	55.28	1,389	880	63.35
BUREAU OF ENGRAVING AND PRINTING ...	1,179	491	41.65	1,148	624	54.36	1,208	706	58.44
INTERNAL REVENUE SERVICE	119	109	91.60	120	110	91.67	89	82	92.13
OFFICE OF PROTECTIVE RESEARCH	-	-	-	5	5	100.00	5	5	100.00
UNITED STATES CUSTOMS SERVICE	104	104	100.00	100	20	20.00	87	87	100.00
OTHER AGENCIES									
AGENCY FOR INTERNAT'L DEVELOPMENT	6,291	5,725	91.00	2,355	1,570	66.67	2,400	1,650	68.75
APPALACHIAN REGIONAL COMMISSION	50	35	70.00	-	-	-	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	143	63	44.06	191	36	18.85	364	54	14.84
ENVIRONMENTAL PROTECTION AGENCY	35,576	15,141	42.56	28,992	14,642	50.50	22,546	12,504	55.46
GENERAL SERVICES ADMINISTRATION	472	354	75.00	253	190	75.10	626	470	75.08
LIBRARY OF CONGRESS	4,422	2,824	63.86	4,456	2,065	46.78	4,445	3,128	70.37
NATIONAL AERONAUTICS & SPACE ADMIN ...	413,710	315,801	76.33	283,642	212,037	74.76	234,409	164,563	70.20
NATIONAL SCIENCE FOUNDATION	5	5	100.00	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	49,245	39,396	80.00	39,902	31,922	80.00	43,126	34,501	80.00
US ARMS CONTROL & DISARMAMENT AGENCY ..	57	57	100.00	-	-	-	-	-	-
UNITED STATES INFORMATION AGENCY	99	65	65.66	1,500	990	66.00	475	399	84.00
VETERANS ADMINISTRATION	12,984	9,088	69.99	15,559	10,308	66.25	15,850	10,435	65.84

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-113. FEDERAL OUTLAYS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1974-84

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1974	1975	1976	1977	1978	1979	1980	1981	1982	ESTIMATES	
										1983	1984
TOTAL, ALL AGENCIES	18,297.1	19,550.8	21,020.9	22,882.9	25,127.9	27,041.0	30,635.8	34,065.9	35,766.8	39,584.8	45,316.0
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	381.5	425.6	468.8	537.8	572.4	630.5	687.6	782.5	828.4	872.8	869.8
AGRICULTURAL COOPERATIVE SVC 1/	1.2	1.2	1.4	N/A	N/A	N/A	1.6	1.3	1.7	1.8	1.6
AGRICULTURAL MARKETING SVC 2/	-	-	-	-	-	-	.9	1.3	1.2	1.5	-
AGRICULTURAL RESEARCH SVC 3/	210.5	232.8	247.4	294.6	318.4	331.2	371.6	425.9	436.1	464.2	470.3
COOPERATIVE STATE RSCH SVC 4/	85.2	95.6	104.2	120.2	134.9	156.6	174.2	199.0	219.8	230.4	232.3
ECON. STAT & COOP SVC 5/	N/A	N/A	N/A	30.5	32.4	35.6	N/A	N/A	N/A	N/A	N/A
ECONOMIC RESEARCH SVC	18.1	22.2	23.6	N/A	N/A	N/A	N/A	38.0	37.0	38.7	41.3
ECONOMICS & STATISTICS SVC 6/	N/A	N/A	N/A	N/A	N/A	N/A	31.1	N/A	N/A	N/A	N/A
FOREST SERVICE	65.6	72.5	90.3	92.5	86.7	105.7	100.6	101.8	116.0	108.2	101.1
HUMAN NUTRITION INFO SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	3.8	12.5	6.6
NATIONAL AGRICULTURAL LIBRARY	.2	.1	-	-	-	-	-	-	-	-	-
OFF OF INTERNAT'L COOP & DEV'T	N/A	N/A	N/A	N/A	N/A	-	6.4	6.9	4.6	6.8	7.7
OFF OF TRANSPORTATION	N/A	N/A	N/A	N/A	N/A	.5	.8	.9	.9	.8	.8
STATISTICAL REPORTING SVC	.6	1.2	2.0	N/A	N/A	N/A	N/A	7.5	7.0	7.9	8.2
DEPARTMENT OF COMMERCE, TOTAL ...	188.2	224.6	233.3	238.2	272.7	307.1	360.6	346.8	286.5	325.3	251.3
NATIONAL BUREAU OF STANDARDS ..	42.5	47.2	49.1	53.1	59.0	64.8	77.1	84.4	87.6	95.5	82.5
NAT'L OCEANIC & ATMOS ADMIN ...	109.5	127.7	134.5	132.6	164.7	190.1	210.6	209.0	174.1	201.0	153.8
OTHER COMMERCE	36.3	49.7	49.8	52.5	48.9	52.2	72.9	53.5	24.8	28.8	15.0
DEPARTMENT OF DEFENSE, TOTAL	8,979.7	9,363.5	9,445.5	10,308.0	10,935.4	11,733.1	13,706.1	15,993.0	18,482.9	22,248.4	27,214.8
DEPARTMENT OF THE ARMY	2,308.6	2,083.0	1,969.6	2,195.0	2,464.3	2,536.2	2,852.9	3,123.7	3,414.4	3,855.8	4,560.7
DEPARTMENT OF THE NAVY	2,715.8	3,126.3	3,320.1	3,582.6	3,919.4	3,926.4	4,507.9	4,916.9	5,394.7	6,082.0	7,336.2
DEPARTMENT OF THE AIR FORCE ...	3,442.3	3,567.6	3,625.2	3,902.2	3,969.9	4,428.0	5,323.6	6,756.6	8,209.1	10,317.6	12,748.1
DEFENSE AGENCIES	485.2	556.9	507.5	610.5	555.1	814.2	981.4	1,160.0	1,420.0	1,943.2	2,518.8
DEFENSE CIVIL PREPAREDNESS											
AGENCY	2.3	3.0	2.2	1.2	2.9	N/A	N/A	N/A	N/A	N/A	N/A
DIRECTOR OF TEST & EVALUATION	25.5	26.8	20.9	16.5	23.9	28.3	40.4	35.7	44.8	49.8	53.0
DEPARTMENT OF EDUCATION, TOTAL ..	N/A	N/A	N/A	N/A	N/A	136.5	120.9	111.8	150.1	173.6	161.1
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	3,593.1	4,413.0	4,956.8	5,660.2	6,125.9	5,785.4	5,987.0	5,681.0
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,960.6	2,168.2	2,615.0	2,622.2	3,070.2	N/A	N/A	N/A	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL											
HLTH ADMIN	127.3	114.1	145.1	167.2	179.9	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION ..	96.9	82.8	69.8	59.7	74.8	N/A	N/A	N/A	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH ..	1,435.4	1,684.4	2,118.4	2,105.0	2,507.1	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF EDUCATION	66.3	53.1	56.8	30.3	25.8	N/A	N/A	N/A	N/A	N/A	N/A
OTHER HEM	234.6	233.8	225.0	260.1	282.6	N/A	N/A	N/A	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	3,172.7	3,554.1	3,997.5	4,052.1	4,323.2	4,414.2
ALCOHOL, DRUG ABUSE & MENTAL											
HLTH ADMIN	N/A	N/A	N/A	N/A	N/A	184.7	218.1	251.1	292.0	297.9	323.8
NATIONAL INSTITUTES OF HEALTH ..	N/A	N/A	N/A	N/A	N/A	2,713.4	3,029.3	3,392.2	3,475.0	3,758.6	3,838.0
OTHER HHS	N/A	N/A	N/A	N/A	N/A	274.5	306.8	354.3	285.0	266.7	252.4
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	58.4	58.7	60.3	69.0	59.3	74.3	65.8	54.1	37.0	34.7	31.2
DEPT OF THE INTERIOR, TOTAL	194.8	266.0	319.7	304.0	339.9	404.3	431.5	436.9	394.9	431.1	358.8
BUREAU OF MINES	66.7	82.7	113.7	103.7	104.2	121.4	130.8	109.0	105.2	119.8	81.8
GEOLOGICAL SURVEY	68.7	95.2	115.7	112.2	128.7	144.2	145.2	168.2	150.1	166.8	144.6
OTHER INTERIOR	59.4	88.1	90.4	88.1	107.0	138.7	155.5	159.7	139.7	144.5	132.5
DEPARTMENT OF JUSTICE, TOTAL	40.5	43.8	39.9	33.7	33.5	45.9	45.3	26.1	36.6	36.1	26.4
OFF OF JUSTICE ASSIST, RSCH, & STATISTICS	34.5	39.2	35.2	27.6	27.1	35.5	35.1	19.2	30.4	26.8	19.1
OTHER JUSTICE	6.0	4.6	4.7	6.2	6.3	10.4	10.2	6.9	6.2	9.3	7.2
DEPARTMENT OF LABOR, TOTAL	22.5	25.4	27.8	28.1	97.6	109.2	137.7	61.6	29.4	18.8	18.2
DEPARTMENT OF STATE, TOTAL	24.8	28.6	27.0	44.1	57.5	3.2	2.2	1.8	1.5	1.6	1.6
AGENCY FOR INTERNAT'L DEVT	23.2	27.4	25.4	41.8	54.6	N/A	N/A	N/A	N/A	N/A	N/A
OTHER STATE	1.6	1.2	1.6	2.3	2.8	3.2	2.2	1.8	1.5	1.6	1.6
DEPT OF TRANSPORTATION, TOTAL ...	363.7	339.2	335.7	363.5	377.3	372.4	391.0	432.1	360.6	380.3	470.4
FEDERAL AVIATION ADMIN	115.8	113.7	114.6	102.8	100.2	111.4	109.7	125.9	110.9	133.2	250.5
FEDERAL HIGHWAY ADMIN	33.5	26.8	42.9	53.0	52.9	48.9	53.4	59.1	42.5	45.5	50.4
FEDERAL RAILROAD ADMIN	38.3	51.1	48.5	57.3	62.4	58.0	63.5	55.0	25.6	33.0	12.5
NAT'L HIGHWAY TRAFFIC											
SAFETY ADMIN	44.4	36.2	33.8	49.5	68.5	53.6	60.3	60.8	60.2	58.6	56.9
URBAN MASS TRANS ADMIN	57.8	60.9	48.2	52.1	52.5	50.5	58.9	61.9	69.8	60.3	52.3
OTHER TRANSPORTATION	73.9	50.6	47.7	48.8	40.8	49.9	45.2	69.4	51.0	49.8	47.8

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TABLE C-113. FEDERAL OUTLAYS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1974-84

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	1974	1975	1976	1977	1978	1979	1980	1981	1982	ESTIMATES	
										1983	1984
DEPT OF THE TREASURY, TOTAL	1.1	1.7	3.8	5.0	9.9	9.6	10.9	10.8	13.6	16.4	16.5
OTHER AGENCIES											
AGENCY FOR INTERNAT'L DEVTMT	N/A	N/A	N/A	N/A	N/A	80.3	114.3	166.1	188.6	253.3	259.3
ENERGY RSCH & DEVELOPMENT ADMIN	1,825.0	2,246.6	2,553.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY	172.2	218.6	265.6	283.0	312.5	388.9	384.7	344.3	336.2	295.2	249.8
NAT'L AERONAUTICS & SPACE ADMIN	3,256.2	3,266.5	3,669.0	3,449.1	3,432.1	3,395.2	3,605.7	3,705.5	3,252.9	2,646.1	3,600.3
NATIONAL SCIENCE FOUNDATION	584.7	600.4	669.1	674.7	738.6	804.6	848.2	905.0	1,015.1	1,004.1	1,145.3
NUCLEAR REGULATORY COMMISSION	46.1	58.5	76.9	107.8	131.7	145.4	182.8	216.0	208.6	205.5	199.7
VETERANS ADMINISTRATION	85.7	97.0	109.5	112.8	123.9	123.1	138.6	144.3	140.7	174.5	165.2
ALL OTHER AGENCIES	111.3	117.9	100.0	109.0	150.5	148.1	187.5	203.7	166.2	156.8	181.2

1/ INCLUDES PROGRAMS OF THE FARMER COOPERATIVE SERVICE FOR FISCAL YEARS 1967-76.

2/ FY 1979 WAS THE FIRST YEAR IN WHICH CONGRESS APPROPRIATED FUNDS TO AMS.

3/ INCLUDES THE FORMER AGRICULTURE RESEARCH SERVICE OF THE SCIENCE & EDUCATION ADMINISTRATION FOR FISCAL YEARS 1978-80.

4/ INCLUDES THE FORMER COOPERATIVE STATE RESEARCH OF THE SCIENCE & EDUCATION ADMINISTRATION FOR FISCAL YEARS 1978-80.

5/ INCLUDES PROGRAMS OF THE ECONOMIC RESEARCH SERVICE, THE STATISTICAL REPORTING SERVICE, AND THE FARMER COOPERATIVE SERVICE FOR FISCAL YEARS 1977-79.

6/ INCLUDES PROGRAMS OF THE ECONOMIC RESEARCH SERVICE AND THE STATISTICAL REPORTING SERVICE FOR FY 1980.

* INDICATES AMOUNT LESS THAN \$50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-114. FEDERAL OUTLAYS FOR RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1974-84

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1974	1975	1976	1977	1978	1979	1980	1981	1982	ESTIMATES	
										1983	1984
TOTAL, ALL AGENCIES	17,592.5	18,721.7	20,220.2	22,082.7	24,020.1	25,838.2	29,154.2	32,459.1	34,390.7	38,158.8	43,834.1
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	375.6	417.7	460.0	515.3	553.8	608.7	659.8	743.4	807.2	839.1	847.3
AGRICULTURAL COOPERATIVE SVC 1/	1.2	1.2	1.4	N/A	N/A	N/A	1.6	1.3	1.7	1.8	1.6
AGRICULTURAL MARKETING SVC 2/	-	-	-	-	-	.9	1.3	1.2	1.5	1.5	-
AGRICULTURAL RESEARCH SVC 3/	207.1	228.8	242.0	275.6	301.9	312.9	347.5	390.1	417.5	433.4	454.2
COOPERATIVE STATE RSCH SVC 4/	85.0	95.5	104.2	120.1	134.9	156.6	174.2	199.0	219.8	228.4	226.3
ECON, STAT & COOP SVC 5/	N/A	N/A	N/A	30.5	32.4	35.6	N/A	N/A	N/A	N/A	N/A
ECONOMIC RESEARCH SVC	18.1	22.2	23.6	N/A	N/A	N/A	N/A	38.0	37.0	38.7	41.3
ECONOMICS & STATISTICS SVC 6/	N/A	N/A	N/A	N/A	N/A	N/A	31.1	N/A	N/A	N/A	N/A
FOREST SERVICE	63.3	68.6	86.9	89.0	84.6	102.2	97.0	98.6	113.2	107.3	200.6
HUMAN NUTRITION INFO SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	3.8	12.5	6.6
NATIONAL AGRICULTURAL LIBRARY	.2	.1	-	-	-	-	-	-	-	-	-
OFF OF INTERNAT'L COOP & DEV'T	N/A	N/A	N/A	N/A	N/A	-	6.4	6.9	4.6	6.8	7.7
OFF OF TRANSPORTATION	N/A	N/A	N/A	N/A	N/A	.5	.8	.9	.9	.8	.8
STATISTICAL REPORTING SVC	.6	1.2	2.0	N/A	N/A	N/A	N/A	7.5	7.0	7.9	8.2
DEPARTMENT OF COMMERCE, TOTAL ...	176.3	214.1	225.5	232.5	269.2	305.2	355.9	345.5	285.4	315.2	248.9
NATIONAL BUREAU OF STANDARDS	40.7	45.3	48.0	52.6	58.1	63.4	76.8	83.9	86.6	85.7	80.1
NAT'L OCEANIC & ATMOS ADMIN	101.6	119.8	129.4	131.2	162.5	190.1	206.7	208.1	174.2	200.7	153.8
OTHER COMMERCE	34.0	49.0	48.1	48.8	48.6	51.7	72.3	53.5	24.8	28.8	15.0
DEPARTMENT OF DEFENSE, TOTAL	8,814.9	9,210.6	9,301.3	10,182.4	10,622.8	11,497.3	13,501.4	15,754.5	18,251.2	21,959.5	26,865.7
DEPARTMENT OF THE ARMY	2,277.2	2,053.1	1,949.0	2,180.2	2,457.5	2,534.1	2,845.3	3,114.8	3,400.9	3,834.9	4,539.8
DEPARTMENT OF THE NAVY	2,668.3	3,078.5	3,260.8	3,519.0	3,670.3	3,873.5	4,417.0	4,824.7	5,269.4	5,933.7	7,158.0
DEPARTMENT OF THE AIR FORCE	3,374.1	3,513.1	3,568.1	3,862.2	3,719.8	4,263.1	5,220.6	6,626.6	8,141.4	10,213.0	12,621.1
DEFENSE AGENCIES	467.4	536.2	500.3	603.3	548.5	798.3	978.2	1,152.6	1,394.8	1,928.1	2,493.8
DEFENSE CIVIL PREPAREDNESS											
AGENCY	2.3	3.0	2.2	1.2	2.9	N/A	N/A	N/A	N/A	N/A	N/A
DIRECTOR OF TEST & EVALUATION	25.5	26.8	20.9	16.5	23.9	28.3	40.4	35.7	44.8	49.8	53.0
DEPARTMENT OF EDUCATION, TOTAL ..	N/A	N/A	N/A	N/A	N/A	136.5	120.9	111.2	150.1	173.6	161.1
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	3,166.0	3,931.7	4,303.3	4,697.5	5,041.4	4,842.1	5,080.1	4,799.7
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,927.3	2,082.3	2,562.6	2,576.6	3,002.2	N/A	N/A	N/A	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL											
HLTH ADMIN	127.3	114.1	145.1	167.2	175.9	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	96.9	82.8	69.8	59.7	74.8	N/A	N/A	N/A	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH	1,407.6	1,602.8	2,066.5	2,063.7	2,440.3	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF EDUCATION	62.8	53.1	56.8	30.3	25.8	N/A	N/A	N/A	N/A	N/A	N/A
OTHER HEW	232.8	229.5	224.5	255.8	281.4	N/A	N/A	N/A	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	3,099.3	3,477.2	3,954.9	4,015.3	4,294.4	4,380.0
ALCOHOL, DRUG ABUSE & MENTAL											
HLTH ADMIN	N/A	N/A	N/A	N/A	N/A	184.4	217.9	250.9	291.7	295.1	321.9
NATIONAL INSTITUTES OF HEALTH	N/A	N/A	N/A	N/A	N/A	2,641.0	2,953.2	3,350.2	3,439.6	3,732.6	3,818.1
OTHER HHS	N/A	N/A	N/A	N/A	N/A	273.9	306.1	353.8	284.0	260.7	239.9
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	58.4	58.7	60.3	69.0	59.3	74.3	65.8	54.1	37.0	34.7	31.2
DEPT OF THE INTERIOR, TOTAL	192.8	263.6	319.0	299.5	332.3	395.3	422.7	432.8	393.6	429.4	357.2
BUREAU OF MINES	66.7	82.7	113.7	100.7	104.1	117.1	128.4	106.9	105.0	119.6	81.8
GEOLOGICAL SURVEY	68.3	95.2	115.7	112.2	128.7	144.2	145.2	168.2	150.1	166.8	144.6
OTHER INTERIOR	57.9	85.7	89.6	86.6	99.4	134.0	149.2	157.7	138.5	143.0	130.9
DEPARTMENT OF JUSTICE, TOTAL	40.5	43.8	39.9	33.7	33.5	45.9	45.3	26.1	36.6	36.1	26.4
OFF OF JUSTICE ASSIST, RSCH, & STATISTICS	34.5	39.2	35.2	27.6	27.1	35.5	35.1	19.2	30.4	26.8	19.1
OTHER JUSTICE	6.0	4.6	4.7	6.2	6.3	10.4	10.2	6.9	6.2	9.3	7.2
DEPARTMENT OF LABOR, TOTAL	22.5	25.4	27.8	28.1	97.6	109.2	137.7	61.6	29.4	18.8	18.2
DEPARTMENT OF STATE, TOTAL	24.5	28.4	25.9	40.1	57.4	3.2	2.2	1.8	1.5	1.6	1.6
AGENCY FOR INTERNAT'L DEVMNT	23.0	27.1	24.3	37.8	54.5	N/A	N/A	N/A	N/A	N/A	N/A
OTHER STATE	1.6	1.2	1.6	2.3	2.8	3.2	2.2	1.8	1.5	1.6	1.6
DEPT OF TRANSPORTATION, TOTAL ...	328.4	324.5	323.6	346.0	364.1	356.2	374.7	415.9	347.0	369.4	451.7
FEDERAL AVIATION ADMIN	115.2	110.9	112.7	99.8	99.2	101.9	104.2	119.8	106.6	126.0	232.3
FEDERAL HIGHWAY ADMIN	33.1	26.4	42.5	52.6	52.5	48.7	53.1	56.3	42.5	45.5	50.4
FEDERAL RAILROAD ADMIN	34.4	42.0	40.5	45.6	51.5	51.7	53.2	48.2	17.4	29.8	12.5
NAT'L HIGHWAY TRAFFIC											
SAFETY ADMIN	44.4	36.2	33.8	49.3	68.3	53.4	60.1	60.3	59.7	58.1	56.4
URBAN MASS TRANS ADMIN	54.1	59.1	46.9	50.4	52.5	50.5	58.9	61.9	69.8	60.3	52.3
OTHER TRANSPORTATION	47.1	50.0	47.2	48.3	40.1	49.9	45.2	69.4	51.0	49.8	47.8

CONTINUED ON NEXT PAGE

TABLE C-114. FEDERAL OUTLAYS FOR RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1974-84

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	1974	1975	1976	1977	1978	1979	1980	1981	1982	ESTIMATES	
										1983	1984
DEPT OF THE TREASURY, TOTAL	1.1	1.7	3.7	4.9	9.9	9.5	10.9	10.8	13.6	16.4	16.4
OTHER AGENCIES											
AGENCY FOR INTERNAT'L DEVMNT	N/A	N/A	N/A	N/A	N/A	75.8	107.8	159.9	178.3	237.6	243.3
ENERGY RSCH & DEVELOPMENT ADMIN	1,488.9	1,835.4	2,189.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY	161.3	207.2	259.0	281.3	310.3	386.5	384.7	344.3	336.2	295.2	249.8
NAT'L AERONAUTICS & SPACE ADMIN	3,181.1	3,181.2	3,548.1	3,344.2	3,307.9	3,262.5	3,465.4	3,558.6	3,140.7	2,538.0	3,461.8
NATIONAL SCIENCE FOUNDATION	570.7	571.3	619.0	649.6	700.5	775.2	830.6	892.3	1,013.6	1,001.6	1,137.3
NUCLEAR REGULATORY COMMISSION	42.3	55.8	73.3	101.7	125.4	137.5	175.4	208.7	208.6	205.5	199.7
VETERANS ADMINISTRATION	80.4	94.8	97.7	106.9	114.3	120.3	134.4	137.8	137.7	157.4	156.4
ALL OTHER AGENCIES	105.5	104.7	84.0	104.9	128.1	136.5	183.8	202.9	165.6	155.2	180.6

1/ INCLUDES PROGRAMS OF THE FARMER COOPERATIVE SERVICE FOR FISCAL YEARS 1967-76.

2/ FY 1979 WAS THE FIRST YEAR IN WHICH CONGRESS APPROPRIATED FUNDS TO AMS.

3/ INCLUDES THE FORMER AGRICULTURE RESEARCH SERVICE OF THE SCIENCE & EDUCATION ADMINISTRATION FOR FISCAL YEARS 1978-80.

4/ INCLUDES THE FORMER COOPERATIVE STATE RESEARCH OF THE SCIENCE & EDUCATION ADMINISTRATION FOR FISCAL YEARS 1978-80.

5/ INCLUDES PROGRAMS OF THE ECONOMIC RESEARCH SERVICE, THE STATISTICAL REPORTING SERVICE, AND THE FARMER COOPERATIVE SERVICE FOR FISCAL YEARS 1977-79.

6/ INCLUDES PROGRAMS OF THE ECONOMIC RESEARCH SERVICE AND THE STATISTICAL REPORTING SERVICE FOR FY 1980.

* INDICATES AMOUNT LESS THAN \$50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-115. FEDERAL OUTLAYS FOR R&D PLANT, BY AGENCY: FISCAL YEARS 1974-84
(BILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1974	1975	1976	1977	1978	1979	1980	1981	1982	ESTIMATES	
										1983	1984
TOTAL, ALL AGENCIES	704.6	829.7	800.6	800.2	1,107.8	1,202.8	1,481.7	1,606.7	1,376.1	1,426.0	1,481.9
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	5.9	7.9	8.8	22.5	18.6	21.7	27.7	39.0	21.3	33.7	22.5
DEPARTMENT OF COMMERCE, TOTAL ...	11.9	10.5	7.8	5.7	3.5	1.9	4.8	1.3	1.0	10.1	2.4
DEPARTMENT OF DEFENSE, TOTAL	164.9	152.9	144.2	125.6	312.6	235.8	204.7	238.5	231.7	288.9	349.1
DEPARTMENT OF THE ARMY	31.4	30.0	20.6	14.8	6.8	2.1	7.6	8.9	13.5	20.9	20.9
DEPARTMENT OF THE NAVY	47.5	47.8	59.3	63.6	49.1	52.9	90.9	92.2	125.3	148.3	178.2
DEPARTMENT OF THE AIR FORCE	68.2	54.5	57.1	40.0	250.1	164.9	103.0	130.0	67.7	104.6	125.0
DEFENSE AGENCIES	17.7	20.6	7.2	7.2	6.6	15.9	3.2	7.4	25.2	15.1	25.0
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	427.1	481.3	653.5	962.8	1,084.5	943.3	906.9	881.3
DEPT OF HLTH, EDUC. & WELFARE, TOTAL	33.3	85.9	52.4	45.6	68.0	N/A	N/A	N/A	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	73.4	76.9	42.6	36.8	28.9	34.2
DEPT OF THE INTERIOR, TOTAL	2.0	2.4	.8	4.4	7.7	9.0	8.7	4.1	1.3	1.7	1.6
DEPARTMENT OF STATE, TOTAL	.2	.3	1.2	4.0	.1	-	-	-	-	-	-
DEPT OF TRANSPORTATION, TOTAL ...	35.4	14.7	12.1	17.5	13.2	16.2	16.3	16.2	13.0	10.9	18.7
DEPT OF THE TREASURY, TOTAL	*	*	.1	.1	*	*	*	.1	.1	.1	.1
OTHER AGENCIES											
AGENCY FOR INTERNAT'L DEVTMT	N/A	N/A	N/A	N/A	N/A	4.5	6.6	6.2	10.3	15.7	16.1
ENERGY RSCH & DEVELOPMENT ADMIN .	336.1	411.2	364.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY .	10.9	11.3	6.7	1.6	2.2	2.4	-	-	-	-	-
NAT'L AERONAUTICS & SPACE ADMIN .	75.1	85.3	120.9	105.0	124.3	132.7	140.3	146.9	112.2	108.1	138.5
NATIONAL SCIENCE FOUNDATION	14.0	29.1	50.1	25.1	38.0	29.4	17.6	12.7	1.5	2.5	8.0
NUCLEAR REGULATORY COMMISSION	3.8	2.6	3.5	6.1	6.2	8.0	7.4	7.3	N/A	N/A	N/A
VETERANS ADMINISTRATION	5.3	2.2	11.8	5.9	9.7	2.8	4.2	6.5	2.9	17.0	8.8
ALL OTHER AGENCIES	5.8	13.2	16.0	4.0	22.3	11.5	3.7	.8	.6	1.6	.6

* INDICATES AMOUNT LESS THAN \$50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-116. FEDERAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1974-84

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1974	1975	1976	1977	1978	1979	1980	1981	1982	ESTIMATES	
										1983	1984
TOTAL, ALL AGENCIES	18,176.5	19,859.5	21,616.4	24,817.6	27,140.8	29,620.6	31,386.1	34,589.6	37,822.4	40,079.4	47,063.6
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	387.5	427.9	478.6	559.9	645.9	685.7	744.5	794.7	818.7	887.7	874.9
AGRICULTURAL COOPERATIVE SVC 1/	1.4	1.2	1.2	N/A	N/A	N/A	1.6	1.7	1.7	1.7	1.4
AGRICULTURAL MARKETING SVC 2/	-	-	-	-	-	1.0	1.3	1.1	1.2	1.5	-
AGRICULTURAL RESEARCH SVC 3/	208.3	221.6	255.3	310.1	347.5	365.0	405.0	411.6	426.0	469.4	472.4
COOPERATIVE STATE RSCH SVC 4/	89.4	101.1	113.4	127.3	157.4	172.6	184.2	199.4	219.0	244.9	231.7
ECON. STAT & COOP SVC 5/	N/A	N/A	N/A	30.5	32.7	35.5	N/A	N/A	N/A	N/A	N/A
ECONOMIC RESEARCH SVC	18.1	21.3	24.0	N/A	N/A	N/A	N/A	39.3	39.3	39.0	45.0
ECONOMICS & STATISTICS SVC 6/	N/A	N/A	N/A	N/A	N/A	N/A	31.1	N/A	N/A	N/A	N/A
FOREST SERVICE	69.6	81.5	82.8	92.1	108.3	111.0	115.2	129.3	112.5	105.5	101.2
HUMAN NUTRITION INFO SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	8.5	8.2	6.6
NATIONAL AGRICULTURAL LIBRARY	.1	-	-	-	-	-	-	-	-	-	-
OFF OF INTERNAT'L COOP & DEV'T	N/A	N/A	N/A	N/A	N/A	-	5.3	3.9	2.6	8.8	7.5
OFF OF TRANSPORTATION	N/A	N/A	N/A	N/A	N/A	.7	.8	.9	.9	.8	.8
STATISTICAL REPORTING SVC	.6	1.2	1.9	N/A	N/A	N/A	N/A	7.5	7.0	7.9	8.2
DEPARTMENT OF COMMERCE, TOTAL ...	192.2	224.9	235.5	251.8	287.7	311.8	347.2	329.3	337.3	349.6	236.6
NATIONAL BUREAU OF STANDARDS ..	41.1	44.6	47.9	53.9	59.1	69.3	76.4	83.0	89.9	104.3	80.3
NAT'L OCEANIC & ATMOS ADMIN	117.0	135.1	139.1	147.2	163.7	171.2	203.6	202.2	222.0	220.8	142.1
OTHER COMMERCE	34.1	45.3	48.5	50.7	64.9	71.3	67.1	44.1	25.4	24.5	14.2
DEPARTMENT OF DEFENSE, TOTAL	8,589.5	9,179.6	9,798.1	11,409.0	11,786.2	12,776.4	14,189.2	16,786.3	20,913.1	23,448.1	30,173.7
DEPARTMENT OF THE ARMY	2,042.0	1,920.7	2,026.0	2,458.2	2,556.5	2,772.5	2,993.8	3,257.0	3,785.2	3,982.0	4,936.2
DEPARTMENT OF THE NAVY	2,772.6	3,162.8	3,373.8	3,878.6	4,046.7	4,403.1	4,789.3	5,103.9	6,001.0	6,197.9	8,311.4
DEPARTMENT OF THE AIR FORCE ...	3,283.9	3,573.1	3,799.6	4,381.1	4,422.4	4,693.1	5,319.0	7,128.8	9,442.6	11,074.0	13,997.0
DEFENSE AGENCIES	464.1	497.4	573.9	659.5	724.5	878.4	1,049.2	1,255.6	1,643.3	2,130.4	2,872.8
DEFENSE CIVIL PREPAREDNESS											
AGENCY	2.7	1.7	.7	1.3	7.5	N/A	N/A	N/A	N/A	N/A	N/A
DIRECTOR OF TEST & EVALUATION	24.2	23.9	24.1	30.2	28.6	29.3	37.9	41.1	41.0	63.8	56.3
DEPARTMENT OF EDUCATION, TOTAL ..	N/A	N/A	N/A	N/A	N/A	166.3	139.4	104.9	128.0	145.4	126.3
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	4,097.2	4,935.5	5,483.2	5,777.8	5,896.4	5,622.2	5,399.7	5,389.5
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	2,331.0	2,436.5	2,616.7	2,955.9	3,281.5	N/A	N/A	N/A	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL											
HLTH ADMIN	155.6	139.4	139.5	153.0	180.2	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION ..	75.7	69.9	63.7	64.9	89.5	N/A	N/A	N/A	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH	1,777.3	1,918.2	2,092.5	2,411.7	2,654.2	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF EDUCATION	51.5	45.9	58.2	31.1	32.9	N/A	N/A	N/A	N/A	N/A	N/A
OTHER HHS	270.9	263.1	262.8	295.3	324.7	N/A	N/A	N/A	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	3,558.4	3,810.8	3,950.9	3,965.4	4,395.9	4,460.1
ALCOHOL, DRUG ABUSE & MENTAL											
HLTH ADMIN	N/A	N/A	N/A	N/A	N/A	214.4	233.5	239.7	251.4	284.2	322.3
NATIONAL INSTITUTES OF HEALTH	N/A	N/A	N/A	N/A	N/A	3,000.8	3,211.2	3,355.5	3,452.6	3,805.8	3,875.2
OTHER HHS	N/A	N/A	N/A	N/A	N/A	343.2	366.1	355.7	261.5	305.9	262.6
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	64.8	62.0	67.6	52.1	69.7	67.9	56.0	48.1	28.9	31.9	27.2
DEPT OF THE INTERIOR, TOTAL	194.5	307.2	339.1	319.7	374.0	410.8	418.8	430.6	382.4	398.7	329.0
BUREAU OF MINES	66.1	107.6	131.3	105.3	121.1	121.3	114.4	97.4	94.8	104.9	67.9
GEOLOGICAL SURVEY	66.6	106.6	110.3	117.5	133.7	145.6	146.3	169.8	152.6	150.3	136.0
OTHER INTERIOR	61.8	93.0	97.5	96.8	119.3	143.9	158.0	163.4	135.0	143.5	125.0
DEPARTMENT OF JUSTICE, TOTAL	34.7	44.3	33.9	27.7	60.9	43.0	41.5	26.5	26.7	35.4	23.7
OFF OF JUSTICE ASSIST, RSCH, & STATISTICS	27.3	40.9	29.2	21.8	51.6	32.2	33.2	21.0	18.0	27.5	16.0
OTHER JUSTICE	7.4	3.4	4.6	5.8	9.3	10.7	8.4	5.5	8.7	7.8	7.7
DEPARTMENT OF LABOR, TOTAL	23.8	25.4	28.5	29.6	97.8	137.0	138.1	62.2	25.4	18.0	19.6
DEPARTMENT OF STATE, TOTAL	22.9	27.9	44.5	77.6	85.4	3.2	2.2	1.8	1.5	1.6	1.6
AGENCY FOR INTERNAT'L DEVTNT ..	21.4	26.7	42.9	75.3	82.6	N/A	N/A	N/A	N/A	N/A	N/A
OTHER STATE	1.5	1.2	1.6	2.3	2.8	3.2	2.2	1.8	1.5	1.6	1.6
DEPT OF TRANSPORTATION, TOTAL ...	383.2	324.8	308.7	377.1	422.4	392.7	384.5	434.5	322.0	408.8	543.5
FEDERAL AVIATION ADMIN	125.4	109.0	100.1	106.4	111.5	120.4	108.8	128.9	99.4	156.4	326.9
FEDERAL HIGHWAY ADMIN	41.2	45.1	29.3	55.9	52.1	53.5	58.3	51.2	40.3	53.9	48.7
FEDERAL RAILROAD ADMIN	37.4	39.4	60.5	58.5	65.7	56.1	56.4	46.1	24.5	29.5	17.0
NAT'L HIGHWAY TRAFFIC											
SAFETY ADMIN	53.6	34.0	31.4	47.2	66.5	56.8	63.8	66.4	55.9	59.7	57.5
URBAN MASS TRANS ADMIN	69.2	19.4	48.8	61.6	69.6	58.0	54.4	78.2	61.4	59.1	45.5
OTHER TRANSPORTATION	56.4	47.8	38.6	47.5	57.0	47.8	42.9	63.6	40.5	50.1	47.9

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TABLE C-116. FEDERAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1974-84

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	1974	1975	1976	1977	1978	1979	1980	1981	1982	ESTIMATES	
										1983	1984
DEPT OF THE TREASURY, TOTAL	1.1	1.7	3.8	4.9	9.9	9.6	12.1	11.4	13.4	16.2	16.5
OTHER AGENCIES											
AGENCY FOR INTERNAT'L DEVMNT	N/A	N/A	N/A	N/A	N/A	112.9	155.6	142.2	205.9	181.5	213.2
ENERGY RSCH & DEVELOPMENT ADMIN ..	1,881.6	2,439.9	2,902.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY ..	170.5	259.7	265.4	297.6	389.3	412.5	345.0	325.7	335.1	240.8	207.7
NAT'L AERONAUTICS & SPACE ADMIN ..	3,100.5	3,207.1	3,529.0	3,288.9	3,495.6	3,725.9	3,393.2	3,708.9	3,191.6	2,513.5	2,613.0
NATIONAL SCIENCE FOUNDATION	568.1	618.1	661.8	724.1	788.5	838.1	900.5	976.2	976.8	1,062.7	1,248.5
NUCLEAR REGULATORY COMMISSION	46.1	67.2	98.1	119.4	140.8	157.4	190.4	227.3	220.3	209.5	199.7
VETERANS ADMINISTRATION	86.9	97.0	109.5	112.9	118.1	132.1	137.8	159.2	140.1	175.8	170.9
ALL OTHER AGENCIES	97.6	108.3	95.0	112.4	151.5	195.9	201.6	172.7	167.6	158.8	188.4

1/ INCLUDES PROGRAMS OF THE FARMER COOPERATIVE SERVICE FOR FISCAL YEARS 1967-76.

2/ FY 1979 WAS THE FIRST YEAR IN WHICH CONGRESS APPROPRIATED FUNDS TO AMS.

3/ INCLUDES THE FORMER AGRICULTURE RESEARCH SERVICE OF THE SCIENCE & EDUCATION ADMINISTRATION FOR FISCAL YEARS 1978-80.

4/ INCLUDES THE FORMER COOPERATIVE STATE RESEARCH OF THE SCIENCE & EDUCATION ADMINISTRATION FOR FISCAL YEARS 1978-80.

5/ INCLUDES PROGRAMS OF THE ECONOMIC RESEARCH SERVICE, THE STATISTICAL REPORTING SERVICE, AND THE FARMER COOPERATIVE SERVICE FOR FISCAL YEARS 1977-79.

6/ INCLUDES PROGRAMS OF THE ECONOMIC RESEARCH SERVICE AND THE STATISTICAL REPORTING SERVICE FOR FY 1980.

* INDICATES AMOUNT LESS THAN \$50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-117. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1974-84

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1974	1975	1976	1977	1978	1979	1980	1981	1982	ESTIMATES	
										1983	1984
TOTAL, ALL AGENCIES	17,410.1	19,038.8	20,779.7	23,450.4	25,845.1	28,145.1	29,830.4	33,103.9	36,432.6	38,710.1	45,497.0
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	378.7	420.1	462.4	547.0	621.3	663.0	687.6	774.0	797.3	852.9	848.4
AGRICULTURAL COOPERATIVE SVC 1/	1.4	1.2	1.2	N/A	N/A	N/A	1.6	1.7	1.7	1.7	1.4
AGRICULTURAL MARKETING SVC 2/	-	-	-	-	-	1.0	1.3	1.1	1.2	1.5	-
AGRICULTURAL RESEARCH SVC 3/	203.5	217.1	242.1	298.9	325.5	345.8	351.8	394.1	404.9	445.0	456.3
COOPERATIVE STATE RSCH SVC 4/	89.4	101.1	113.4	127.3	157.4	172.6	184.2	199.4	219.0	234.9	221.7
ECOM, STAT & COOP SVC 5/	N/A	N/A	N/A	30.5	32.7	35.5	N/A	N/A	N/A	N/A	N/A
ECONOMIC RESEARCH SVC	18.1	21.3	24.0	N/A	N/A	N/A	N/A	39.3	39.3	39.0	45.0
ECONOMICS & STATISTICS SVC 6/	N/A	N/A	N/A	N/A	N/A	N/A	31.1	N/A	N/A	N/A	N/A
FOREST SERVICE	65.5	78.2	79.9	90.3	105.6	107.5	111.5	126.1	112.1	105.0	100.8
HUMAN NUTRITION INFO SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	8.5	8.2	6.6
NATIONAL AGRICULTURAL LIBRARY	.1	*	*	-	-	-	-	-	-	-	-
OFF OF INTERNAT'L COOP & DEV'T	N/A	N/A	N/A	N/A	N/A	-	5.3	3.9	2.6	8.8	7.5
OFF OF TRANSPORTATION	N/A	N/A	N/A	N/A	N/A	.7	.8	.9	.9	.8	.8
STATISTICAL REPORTING SVC	.6	1.2	1.9	N/A	N/A	N/A	N/A	7.5	7.0	7.9	8.2
DEPARTMENT OF COMMERCE, TOTAL ...	180.6	215.4	228.9	244.7	283.7	309.4	342.5	327.9	336.3	338.6	234.3
NATIONAL BUREAU OF STANDARDS	40.2	43.2	47.4	53.2	58.3	67.8	76.2	82.5	88.8	93.6	78.0
NAT'L OCEANIC & ATMOS ADMIN	109.1	128.0	135.1	145.7	161.5	171.2	199.8	201.4	222.0	220.5	142.1
OTHER COMMERCE	31.3	44.2	46.3	45.8	63.9	70.4	66.6	44.1	25.4	24.5	14.2
DEPARTMENT OF DEFENSE, TOTAL	8,420.4	9,012.5	9,654.7	10,963.4	11,553.6	12,506.2	13,981.0	16,508.6	20,622.6	23,125.1	29,735.5
DEPARTMENT OF THE ARMY	2,009.9	1,896.7	2,013.7	2,441.9	2,548.9	2,768.7	2,980.0	3,244.2	3,760.5	3,965.0	4,904.1
DEPARTMENT OF THE NAVY	2,718.5	3,100.2	3,328.0	3,817.4	3,998.4	4,335.0	4,706.1	5,006.0	5,845.1	6,043.7	8,063.3
DEPARTMENT OF THE AIR FORCE	3,216.2	3,513.5	3,726.6	4,031.1	4,262.3	4,525.6	5,211.0	6,969.2	9,357.9	10,937.3	13,864.0
DEFENSE AGENCIES	448.9	476.5	561.6	641.4	707.9	847.6	1,046.0	1,248.2	1,618.1	2,115.3	2,847.8
DEFENSE CIVIL PREPAREDNESS											
AGENCY	2.7	1.7	.7	1.3	7.5	N/A	N/A	N/A	N/A	N/A	N/A
DIRECTOR OF TEST & EVALUATION	24.2	23.9	24.1	30.2	28.6	29.3	37.9	41.1	41.0	63.8	56.3
DEPARTMENT OF EDUCATION, TOTAL ..	N/A	N/A	N/A	N/A	N/A	166.3	139.4	104.9	128.0	145.4	126.3
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	3,536.2	4,244.8	4,638.8	4,753.7	4,918.2	4,708.2	4,605.4	4,516.8
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	2,290.1	2,397.5	2,583.6	2,823.3	3,207.3	N/A	N/A	N/A	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL											
HLTH ADMIN	155.6	139.4	139.5	153.0	180.2	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	75.7	69.9	63.7	64.9	89.5	N/A	N/A	N/A	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH	1,736.8	1,879.9	2,060.2	2,279.9	2,580.9	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF EDUCATION	51.5	45.9	58.2	31.1	32.9	N/A	N/A	N/A	N/A	N/A	N/A
OTHER HEW	270.5	262.4	261.9	294.5	323.8	N/A	N/A	N/A	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	3,504.9	3,780.2	3,927.1	3,940.7	4,326.7	4,434.8
ALCOHOL, DRUG ABUSE & MENTAL											
HLTH ADMIN	N/A	N/A	N/A	N/A	N/A	214.3	233.5	239.4	248.1	284.1	320.8
NATIONAL INSTITUTES OF HEALTH	N/A	N/A	N/A	N/A	N/A	2,953.1	3,181.8	3,333.2	3,433.1	3,773.7	3,853.2
OTHER HHS	N/A	N/A	N/A	N/A	N/A	337.5	364.9	354.5	259.5	268.9	260.8
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	64.8	62.0	67.6	52.1	69.7	67.9	56.0	48.1	28.9	31.9	27.2
DEPT OF THE INTERIOR, TOTAL	192.4	303.3	333.2	314.7	359.0	405.8	411.3	427.1	381.1	397.1	327.8
BUREAU OF MINES	66.1	107.6	131.3	101.9	114.0	121.0	113.4	96.7	94.7	104.7	67.9
GEOLOGICAL SURVEY	66.2	106.6	110.3	117.5	133.7	145.6	146.3	169.8	152.6	150.3	136.0
OTHER INTERIOR	60.1	89.1	91.6	95.3	111.4	139.2	151.5	160.6	133.8	142.2	123.8
DEPARTMENT OF JUSTICE, TOTAL	34.7	44.3	33.9	27.7	60.9	43.0	41.5	26.5	26.7	35.4	23.7
OFF OF JUSTICE ASSIST, RSCH, & STATISTICS	27.3	40.9	29.2	21.8	51.6	32.2	33.2	21.0	18.0	27.5	16.0
OTHER JUSTICE	7.4	3.4	4.6	5.8	9.3	10.7	8.4	5.5	8.7	7.3	7.7
DEPARTMENT OF LABOR, TOTAL	23.8	25.4	28.5	29.6	97.8	137.0	138.1	62.2	25.4	18.0	19.6
DEPARTMENT OF STATE, TOTAL	22.5	27.9	39.4	61.4	85.2	3.2	2.2	1.8	1.5	1.6	1.6
AGENCY FOR INTERNAT'L DEVMNT	21.1	26.7	37.8	59.1	82.4	N/A	N/A	N/A	N/A	N/A	N/A
OTHER STATE	1.5	1.2	1.6	2.3	2.8	3.2	2.2	1.8	1.5	1.6	1.6
DEPT OF TRANSPORTATION, TOTAL ...	369.8	311.6	294.5	354.6	408.3	370.1	361.2	415.5	310.1	394.5	520.0
FEDERAL AVIATION ADMIN	125.0	105.6	98.1	103.4	110.5	110.5	103.1	120.0	94.3	142.6	303.9
FEDERAL HIGHWAY ADMIN	40.8	44.7	28.9	55.5	51.7	52.9	51.1	51.2	40.3	53.9	48.7
FEDERAL RAILROAD ADMIN	33.5	32.4	50.4	41.9	53.9	44.2	46.2	36.6	18.2	29.5	17.0
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	53.6	34.0	31.4	47.0	66.3	56.6	63.6	65.9	55.4	59.2	57.0
URBAN MASS TRANS ADMIN	65.6	47.7	47.5	59.9	69.6	58.0	54.4	78.2	61.4	59.1	45.5
OTHER TRANSPORTATION	51.3	47.2	38.2	46.9	56.3	47.8	42.9	63.6	40.5	50.1	47.9

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TABLE C-117. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1974-84

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	1974	1975	1976	1977	1978	1979	1980	1981	1982	ESTIMATES	
										1983	1984
DEPT OF THE TREASURY, TOTAL	1.1	1.7	3.7	4.8	9.9	9.5	12.0	11.3	13.3	16.1	16.4
OTHER AGENCIES											
AGENCY FOR INTERNAT'L DEVTMT	N/A	N/A	N/A	N/A	N/A	106.5	149.3	134.2	199.9	175.2	206.5
ENERGY RSCH & DEVELOPMENT ADMIN ..	1,488.9	2,047.3	2,463.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY ..	169.2	257.7	259.1	295.5	384.6	410.1	345.0	325.7	335.1	240.8	207.7
NAT'L AERONAUTICS & SPACE ADMIN ..	3,002.2	3,064.4	3,446.8	3,170.8	3,333.3	3,578.4	3,234.1	3,593.2	3,077.9	2,416.0	2,462.5
NATIONAL SCIENCE FOUNDATION	556.4	595.0	609.3	697.0	748.8	807.9	881.8	961.6	975.3	1,060.2	1,240.5
NUCLEAR REGULATORY COMMISSION ...	42.3	64.2	88.4	112.3	133.9	148.8	182.7	219.7	220.3	209.5	199.7
VETERANS ADMINISTRATION	84.8	94.8	97.7	107.0	114.0	127.0	133.4	144.4	137.3	162.7	159.8
ALL OTHER AGENCIES	87.4	93.9	84.2	108.5	129.1	141.5	197.4	171.9	166.8	157.0	186.0

1/ INCLUDES PROGRAMS OF THE FARMER COOPERATIVE SERVICE FOR FISCAL YEARS 1967-76.

2/ FY 1979 WAS THE FIRST YEAR IN WHICH CONGRESS APPROPRIATED FUNDS TO AMS.

3/ INCLUDES THE FORMER AGRICULTURE RESEARCH SERVICE OF THE SCIENCE & EDUCATION ADMINISTRATION FOR FISCAL YEARS 1978-80.

4/ INCLUDES THE FORMER COOPERATIVE STATE RESEARCH OF THE SCIENCE & EDUCATION ADMINISTRATION FOR FISCAL YEARS 1978-80.

5/ INCLUDES PROGRAMS OF THE ECONOMIC RESEARCH SERVICE, THE STATISTICAL REPORTING SERVICE, AND THE FARMER COOPERATIVE SERVICE FOR FISCAL YEARS 1977-79.

6/ INCLUDES PROGRAMS OF THE ECONOMIC RESEARCH SERVICE AND THE STATISTICAL REPORTING SERVICE FOR FY 1980.

* INDICATES AMOUNT LESS THAN \$50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-118. FEDERAL OBLIGATIONS FOR R&D PLANT, BY AGENCY: FISCAL YEARS 1974-84

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1974	1975	1976	1977	1978	1979	1980	1981	1982	ESTIMATES	
										1983	1984
TOTAL, ALL AGENCIES	766.3	820.7	836.7	1,367.2	1,295.7	1,475.5	1,555.7	1,485.7	1,389.8	1,369.3	1,566.6
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	8.8	7.8	16.1	12.9	24.7	22.6	56.9	20.8	21.5	34.8	26.5
DEPARTMENT OF COMMERCE, TOTAL ...	11.6	9.5	6.6	7.1	4.1	2.4	4.6	1.3	1.0	11.0	2.3
DEPARTMENT OF DEFENSE, TOTAL	169.1	167.1	143.4	445.6	232.6	270.2	208.2	277.7	290.5	323.0	438.2
DEPARTMENT OF THE ARMY	32.1	23.9	12.3	16.3	7.6	3.8	13.8	12.8	24.7	17.0	32.1
DEPARTMENT OF THE NAVY	54.0	62.7	45.8	41.2	48.3	68.1	83.2	97.9	155.9	154.2	248.1
DEPARTMENT OF THE AIR FORCE ...	67.7	59.6	73.0	350.0	160.1	167.5	108.0	159.6	84.7	136.7	133.0
DEFENSE AGENCIES	15.3	20.9	12.3	18.1	16.6	30.8	3.2	7.4	25.2	15.1	25.0
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	561.0	690.7	844.4	1,024.1	978.2	914.0	794.3	872.6
DEPT OF HLTH, EDUC, & WELFARE, ...											
TOTAL	40.9	39.1	33.1	132.6	74.3	N/A	N/A	N/A	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	53.5	30.6	23.7	24.7	69.2	25.3
DEPT OF THE INTERIOR, TOTAL	2.1	3.9	5.9	5.0	15.0	5.0	7.5	3.5	1.3	1.6	1.2
DEPARTMENT OF STATE, TOTAL	.4	-	5.1	16.2	.2	-	-	-	-	-	-
DEPT OF TRANSPORTATION, TOTAL ...	13.4	13.3	14.2	22.5	14.1	22.6	23.3	18.9	11.9	14.3	23.5
DEPT OF THE TREASURY, TOTAL	*	*	.1	.1	*	*	*	.1	.1	.1	.1
OTHER AGENCIES											
AGENCY FOR INTERNAT'L DEVTMENT	N/A	N/A	N/A	N/A	N/A	6.4	6.3	8.0	6.0	6.3	6.7
ENERGY RESEARCH & DEVELOPMENT ADMIN ..	392.7	392.6	438.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY ...	1.2	2.1	6.3	2.1	4.6	2.4	-	-	-	-	-
NAT'L AERONAUTICS & SPACE ADMIN	98.4	142.7	82.1	118.1	162.3	147.5	159.1	115.8	113.7	97.5	150.5
NATIONAL SCIENCE FOUNDATION	11.7	23.1	52.6	27.1	39.7	30.2	18.7	14.6	1.5	2.5	8.0
NUCLEAR REGULATORY COMMISSION ...	3.8	3.0	9.6	7.1	6.9	8.6	7.7	7.7	-	-	-
VETERANS ADMINISTRATION	2.1	2.2	11.8	5.9	4.1	5.1	4.4	14.8	2.8	13.1	11.1
ALL OTHER AGENCIES	10.2	14.4	10.8	3.9	22.4	54.4	4.2	.8	.8	1.7	.4

* INDICATES AMOUNT LESS THAN \$50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-119. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT BY CHARACTER OF WORK, AND R&D PLANT: FISCAL YEARS 1974-84

(MILLIONS OF DOLLARS)

FISCAL YEARS	TOTAL	RESEARCH		DEVELOPMENT	R&D PLANT
		BASIC	APPLIED		
1974.....	18,176.5	2,387.7	3,787.6	11,234.9	766.3
1975.....	19,859.5	2,588.4	4,141.3	12,309.1	820.7
1976.....	21,616.4	2,767.5	4,851.9	13,160.3	836.7
1977.....	24,817.6	3,258.6	5,255.5	14,936.3	1,367.2
1978.....	27,140.8	7,698.6	5,908.2	16,238.4	1,295.7
1979.....	29,620.6	4,192.7	6,342.3	17,610.1	1,475.5
1980.....	31,386.1	4,674.2	6,923.2	18,233.1	1,555.7
1981.....	34,589.6	5,041.3	7,171.5	20,891.1	1,485.7
1982.....	37,822.4	5,481.6	7,540.6	23,410.4	1,389.8
1983 (ESTIMATED).....	40,079.4	6,086.0	8,048.3	24,555.7	1,369.3
1984 (ESTIMATED).....	47,063.6	6,615.4	8,047.9	30,833.8	1,566.6

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-120. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY SELECTED AGENCY: FISCAL YEARS 1974-84

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1974	1975	1976	1977	1978	1979	1980	1981	1982	ESTIMATES	
										1983	1984
TOTAL, ALL AGENCIES	6,175.2	6,729.7	7,619.3	8,514.1	9,606.8	10,535.0	11,597.4	12,212.8	13,022.2	14,154.3	14,663.2
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	365.1	401.9	442.2	524.0	594.5	631.9	657.4	741.0	766.5	822.5	818.9
AGRICULTURAL COOPERATIVE SVC 1/	1.4	1.2	1.2	N/A	N/A	N/A	1.6	1.7	1.7	1.7	1.4
AGRICULTURAL MARKETING SVC 2/	-	-	-	-	-	-	1.0	.9	1.0	1.3	-
AGRICULTURAL RESEARCH SVC 3/	193.4	204.1	227.6	281.0	303.7	320.9	328.6	367.9	379.1	419.3	430.6
COOPERATIVE STATE RSCH SVC 4/	89.4	101.1	113.4	127.3	157.4	172.6	184.2	199.4	219.0	234.9	221.7
ECON, STAT & COOP SVC 5/	N/A	N/A	N/A	29.7	32.7	35.5	N/A	N/A	N/A	N/A	N/A
ECONOMIC RESEARCH SVC	18.1	21.3	24.0	N/A	N/A	N/A	N/A	39.3	39.3	39.0	45.0
ECONOMICS & STATISTICS SVC 6/	N/A	N/A	N/A	N/A	N/A	N/A	31.1	N/A	N/A	N/A	N/A
FOREST SERVICE	62.3	73.3	74.5	86.1	100.7	102.5	106.1	119.9	107.7	101.3	97.7
HUMAN NUTRITION INFO SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	8.5	8.2	6.6
NATIONAL AGRICULTURAL LIBRARY	.1	*	*	-	-	-	-	-	-	-	-
OFF OF INTERNAT'L COOP & DEV'T	N/A	N/A	N/A	N/A	N/A	-	4.9	3.6	2.4	8.1	6.9
OFF OF TRANSPORTATION	N/A	N/A	N/A	N/A	N/A	-	-	.8	.8	.7	.8
STATISTICAL REPORTING SVC	.4	1.0	1.6	N/A	N/A	N/A	N/A	7.5	7.0	7.9	8.2
DEPARTMENT OF COMMERCE, TOTAL ...	129.2	144.4	155.7	176.1	192.8	219.5	254.4	249.4	276.1	280.1	199.7
NATIONAL BUREAU OF STANDARDS ..	32.7	34.7	37.5	45.0	48.5	51.8	58.9	66.2	73.9	80.1	70.8
NAT'L OCEANIC & ATMOS ADMIN ...	87.1	99.7	104.9	115.8	127.9	142.7	168.8	168.5	188.5	187.4	118.6
OTHER COMMERCE	9.4	10.0	13.3	15.4	16.3	25.0	26.7	14.7	13.6	12.5	10.3
DEPARTMENT OF DEFENSE, TOTAL	1,434.4	1,431.0	1,527.5	1,715.8	1,824.1	2,014.1	2,261.8	2,600.9	2,952.8	3,161.5	3,572.2
DEPARTMENT OF THE ARMY	366.5	336.4	362.4	398.0	409.8	448.6	479.3	536.5	639.2	652.9	745.9
DEPARTMENT OF THE NAVY	401.3	406.5	438.0	497.4	526.3	567.3	611.1	698.0	778.7	821.9	883.0
DEPARTMENT OF THE AIR FORCE ...	341.7	355.8	382.3	425.8	448.7	492.3	537.3	617.3	633.9	656.6	732.6
DEFENSE AGENCIES	322.2	330.6	344.1	393.4	431.7	505.9	634.1	749.1	901.0	1,030.1	1,210.7
DEFENSE CIVIL PREPAREDNESS AGENCY	2.7	1.7	.7	1.3	7.5	N/A	N/A	N/A	N/A	N/A	N/A
DEPARTMENT OF EDUCATION, TOTAL ..	N/A	N/A	N/A	N/A	N/A	93.4	87.6	53.8	70.5	78.1	71.2
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	891.3	1,102.2	1,131.8	1,277.3	1,413.6	1,636.1	1,968.6	1,830.6
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,846.7	1,924.8	2,150.7	2,414.3	2,740.7	N/A	N/A	N/A	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	155.6	139.4	136.6	152.0	178.2	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	9.5	4.1	10.8	27.1	34.6	N/A	N/A	N/A	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH	1,489.6	1,604.2	1,767.7	1,968.7	2,232.6	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF EDUCATION	6.4	5.3	21.4	11.9	13.3	N/A	N/A	N/A	N/A	N/A	N/A
OTHER HEM	185.5	171.9	214.2	254.6	281.4	N/A	N/A	N/A	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	3,015.7	3,332.8	3,492.2	3,605.6	3,972.7	4,093.7
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	N/A	N/A	N/A	213.5	233.5	237.7	246.1	282.4	318.9
NATIONAL INSTITUTES OF HEALTH	N/A	N/A	N/A	N/A	N/A	2,530.1	2,787.5	2,948.3	3,124.5	3,443.3	3,522.8
OTHER HHS	N/A	N/A	N/A	N/A	N/A	272.0	311.8	306.2	235.1	247.0	252.0
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	33.8	33.5	36.9	32.7	30.5	23.8	19.6	16.7	10.3	11.9	10.1
DEPT OF THE INTERIOR, TOTAL	143.5	234.1	259.5	255.9	283.5	339.5	354.4	369.8	351.5	368.8	310.4
BUREAU OF MINES	30.5	52.9	73.3	52.3	57.0	79.1	82.8	68.0	81.1	93.8	65.4
GEOLOGICAL SURVEY	66.2	106.6	110.3	117.5	133.7	145.1	145.8	169.3	152.1	150.3	136.0
OTHER INTERIOR	46.7	74.5	75.8	86.2	92.8	115.3	125.8	132.6	118.3	124.6	109.1
DEPARTMENT OF JUSTICE, TOTAL	18.6	18.9	18.3	17.6	45.7	28.8	28.8	19.5	16.3	23.8	14.4
OFF OF JUSTICE ASSIST, RSCH, & STATISTICS	16.9	17.9	17.7	16.4	43.3	25.9	25.6	16.7	13.4	21.0	12.0
OTHER JUSTICE	1.7	1.0	.6	1.2	2.4	2.9	3.1	2.8	2.9	2.8	2.4
DEPARTMENT OF LABOR, TOTAL	17.2	15.3	18.0	18.7	25.7	42.1	36.4	58.2	17.2	15.9	17.3
DEPARTMENT OF STATE, TOTAL	17.8	22.5	25.1	38.3	49.1	2.7	2.0	1.6	1.5	1.6	1.6
AGENCY FOR INTERNAT'L DEV'T ..	16.8	21.7	24.0	36.2	46.6	N/A	N/A	N/A	N/A	N/A	N/A
OTHER STATE	1.1	.7	1.1	2.1	2.5	2.7	2.0	1.6	1.5	1.6	1.6
DEPT OF TRANSPORTATION, TOTAL ...	61.8	53.8	51.1	51.8	66.5	67.0	82.4	88.6	66.7	78.6	81.2
FEDERAL AVIATION ADMIN	13.9	14.1	3.6	4.7	6.8	7.5	8.2	8.2	7.0	12.5	23.2
FEDERAL HIGHWAY ADMIN	3.3	3.4	1.9	5.3	4.9	4.4	4.6	5.1	5.3	7.1	6.4
FEDERAL RAILROAD ADMIN	1.6	2.7	8.6	6.6	9.2	7.5	7.9	6.2	3.1	5.1	.9
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	14.9	12.0	9.9	27.5	38.0	30.0	38.6	29.4	21.3	22.8	2.4
URBAN MASS TRANS ADMIN	6.2	2.9	0.6	1.0	1.1	1.1	8.9	9.3	19.4	18.0	3.7
OTHER TRANSPORTATION	21.9	18.7	6.5	6.7	6.5	16.5	14.2	30.4	10.6	13.1	12.6

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TABLE C-120. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY SELECTED AGENCY: FISCAL YEARS 1974-84
(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	1974	1975	1976	1977	1978	1979	1980	1981	1982	ESTIMATES	
										1983	1984
DEPT OF THE TREASURY, TOTAL	.5	.4	1.5	2.1	4.1	4.7	5.7	5.2	8.1	11.2	11.6
OTHER AGENCIES											
AGENCY FOR INTERNAT'L DEVMNT	N/A	N/A	N/A	N/A	N/A	66.9	79.7	86.4	127.9	117.3	140.6
ENERGY RSCH & DEVELOPMENT ADMIN ..	464.7	593.4	746.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY ..	96.3	141.7	155.4	205.3	252.7	259.0	245.1	218.3	243.4	173.9	148.6
NAT'L AERONAUTICS & SPACE ADMIN ..	845.7	935.1	1,222.8	1,206.1	1,345.2	1,451.2	1,609.6	1,407.2	1,407.1	1,561.5	1,646.9
NATIONAL SCIENCE FOUNDATION	520.3	570.0	595.8	688.3	743.5	800.0	873.7	955.5	973.2	1,060.2	1,240.5
NUCLEAR REGULATORY COMMISSION ...	42.3	64.2	88.4	112.3	133.9	148.8	182.7	219.7	220.3	209.5	199.7
VETERANS ADMINISTRATION	78.7	87.1	85.1	92.3	99.4	111.4	117.9	127.7	123.0	146.4	143.3
ALL OTHER AGENCIES	58.7	57.5	58.7	71.2	72.7	82.8	88.1	87.6	88.2	90.1	110.6

1/ INCLUDES PROGRAMS OF THE FARMER COOPERATIVE SERVICE FOR FISCAL YEARS 1967-76.

2/ FY 1979 WAS THE FIRST YEAR IN WHICH CONGRESS APPROPRIATED FUNDS TO AMS.

3/ INCLUDES THE FORMER AGRICULTURE RESEARCH SERVICE OF THE SCIENCE & EDUCATION ADMINISTRATION FOR FISCAL YEARS 1978-80.

4/ INCLUDES THE FORMER COOPERATIVE STATE RESEARCH OF THE SCIENCE & EDUCATION ADMINISTRATION FOR FISCAL YEARS 1978-80.

5/ INCLUDES PROGRAMS OF THE ECONOMIC RESEARCH SERVICE, THE STATISTICAL REPORTING SERVICE, AND THE FARMER COOPERATIVE SERVICE FOR FISCAL YEARS 1977-79.

6/ INCLUDES PROGRAMS OF THE ECONOMIC RESEARCH SERVICE AND THE STATISTICAL REPORTING SERVICE FOR FY 1980.

* INDICATES AMOUNT LESS THAN \$50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-121. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY SELECTED AGENCY: FISCAL YEARS 1974-84
(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1974	1975	1976	1977	1978	1979	1980	1981	1982	ESTIMATES	
										1983	1984
TOTAL, ALL AGENCIES	2,387.7	2,588.4	2,767.5	3,258.6	3,698.6	4,192.7	4,674.2	5,041.3	5,481.6	6,086.0	6,615.4
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	145.6	154.2	171.4	204.5	242.7	256.4	275.7	314.1	330.8	363.3	380.8
AGRICULTURAL RESEARCH SVC 1/ ..	85.5	91.2	101.7	125.6	142.4	148.2	157.8	186.4	192.9	217.1	235.9
COOPERATIVE STATE RSCH SVC 2/ ..	34.0	38.4	43.1	48.4	65.6	70.5	75.2	83.9	91.3	97.6	95.6
ECON. STAT & COOP SVC 3/	N/A	N/A	N/A	3.8	3.9	6.4	N/A	N/A	N/A	N/A	N/A
ECONOMIC RESEARCH SVC	5.4	3.2	3.6	N/A	N/A	N/A	N/A	3.6	3.9	3.9	4.5
ECONOMICS & STATISTICS SVC 4/ ..	N/A	N/A	N/A	N/A	N/A	N/A	6.6	N/A	N/A	N/A	N/A
FOREST SERVICE	20.7	21.1	22.6	26.7	30.8	31.4	33.7	38.1	38.7	37.8	38.3
OFF OF INTERNAT'L COOP & DEV'T	N/A	N/A	N/A	N/A	N/A	-	2.3	1.7	1.1	3.9	3.3
OFF OF TRANSPORTATION	N/A	N/A	N/A	N/A	N/A	-	-	.5	.5	.4	.5
STATISTICAL REPORTING SVC	*	.3	.4	N/A	N/A	N/A	N/A	-	2.3	2.6	2.8
DEPARTMENT OF COMMERCE, TOTAL ...	7.7	8.1	11.0	12.1	11.8	11.9	15.9	16.2	16.9	18.0	16.5
NATIONAL BUREAU OF STANDARDS ..	6.2	5.4	5.8	6.9	5.9	8.8	12.8	15.6	16.5	17.2	15.7
OTHER COMMERCE	1.5	2.8	5.2	5.4	5.9	3.1	3.1	.6	.3	.7	.8
DEPARTMENT OF DEFENSE, TOTAL	302.9	300.1	326.9	373.3	410.4	471.5	540.3	604.3	686.7	769.8	868.5
DEPARTMENT OF THE ARMY	76.3	71.7	81.4	99.0	104.1	115.0	132.2	148.1	187.7	195.0	220.4
DEPARTMENT OF THE NAVY	114.2	118.7	129.7	153.8	172.1	192.1	214.9	238.0	280.3	314.0	330.2
DEPARTMENT OF THE AIR FORCE ...	77.5	78.9	83.9	84.8	95.1	105.0	108.2	125.8	145.8	157.6	206.6
DEFENSE AGENCIES	34.9	30.7	31.9	35.6	39.1	59.3	85.1	92.4	72.9	103.3	111.3
DEPARTMENT OF EDUCATION, TOTAL ..	N/A	N/A	N/A	N/A	N/A	20.6	17.6	20.6	14.2	14.6	12.8
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	389.5	440.5	463.0	523.1	586.3	642.2	717.1	800.8
DEPT OF HLTH, EDUC. & WELFARE, TOTAL	850.1	903.7	986.2	1,119.5	1,292.3	N/A	N/A	N/A	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	53.3	66.2	52.6	62.7	79.9	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION ..	4.8	1.9	5.1	11.9	18.3	N/A	N/A	N/A	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH ..	775.3	828.5	920.3	1,032.8	1,181.1	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF EDUCATION	.2	-	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A
OTHER HEM	16.5	7.1	8.2	12.2	13.1	N/A	N/A	N/A	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	1,576.0	1,762.7	1,900.4	2,144.7	2,388.4	2,468.1
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	N/A	N/A	N/A	94.6	104.7	116.3	117.3	137.3	154.5
NATIONAL INSTITUTES OF HEALTH ..	N/A	N/A	N/A	N/A	N/A	1,463.7	1,642.3	1,766.8	2,020.7	2,243.9	2,305.1
OTHER HHS	N/A	N/A	N/A	N/A	N/A	17.7	15.6	17.3	6.7	7.1	8.5
DEPT OF THE INTERIOR, TOTAL	48.7	54.9	54.3	63.6	65.9	72.5	71.6	80.7	76.5	100.0	89.7
BUREAU OF MINES	5.6	1.9	.8	4.0	8.6	13.7	11.5	13.6	15.9	27.8	29.6
GEOLOGICAL SURVEY	27.2	38.6	39.5	40.3	46.3	49.0	47.3	53.5	52.6	60.0	55.0
OTHER INTERIOR	15.9	14.4	14.0	19.3	11.0	9.8	12.8	13.6	7.9	12.3	5.1
DEPARTMENT OF JUSTICE, TOTAL	2.1	9.5	4.5	5.1	14.7	7.9	9.5	4.6	3.1	4.2	2.4
OFF OF JUSTICE ASSIST, RSCH, & STATISTICS	2.1	9.5	4.5	5.1	14.7	7.9	9.5	4.6	3.1	4.2	2.4
DEPARTMENT OF LABOR, TOTAL	1.2	.9	1.0	.7	3.7	2.3	3.9	3.7	6.5	3.8	4.4
DEPARTMENT OF STATE, TOTAL	-	1.5	-	-	-	*	-	-	-	-	-
AGENCY FOR INTERNAT'L DEVTMT ..	-	1.5	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A
OTHER STATE	-	-	-	-	-	*	-	-	-	-	-
DEPT OF TRANSPORTATION, TOTAL ...	.3	.1	-	-	-	-	-	1.2	1.0	1.4	1.6
OTHER TRANSPORTATION	.3	.1	-	-	-	-	-	1.2	1.0	1.4	1.6
DEPT OF THE TREASURY, TOTAL	-	-	-	-	-	.2	1.7	2.3	2.2	3.3	3.7

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TABLE C-121. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY SELECTED AGENCY: FISCAL YEARS 1974-84

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1974	1975	1976	1977	1978	1979	1980	1981	1982	ESTIMATES	
										1983	1984
OTHER AGENCIES											
ENERGY RESCH & DEVELOPMENT ADMIN .	269.5	312.8	345.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY .	9.5	17.4	13.7	8.3	6.0	10.1	13.6	10.5	32.7	20.7	17.4
NAT'L AERONAUTICS & SPACE ADMIN .	305.9	309.3	293.2	413.8	479.7	512.8	559.1	531.1	535.7	604.7	681.5
NATIONAL SCIENCE FOUNDATION	415.2	486.0	523.6	624.9	678.0	733.3	815.2	896.6	916.1	998.5	1,181.1
VETERANS ADMINISTRATION	3.6	3.9	8.9	9.1	8.9	9.5	14.3	15.0	12.9	15.2	15.1
ALL OTHER AGENCIES	25.5	26.1	27.0	34.2	43.9	44.6	49.8	53.6	59.6	63.0	71.0

1/ INCLUDES THE FORMER AGRICULTURE RESEARCH SERVICE OF THE SCIENCE & EDUCATION ADMINISTRATION FOR FISCAL YEARS 1978-80.

2/ INCLUDES THE FORMER COOPERATIVE STATE RESEARCH OF THE SCIENCE & EDUCATION ADMINISTRATION FOR FISCAL YEARS 1978-80.

3/ INCLUDES PROGRAMS OF THE ECONOMIC RESEARCH SERVICE, THE STATISTICAL REPORTING SERVICE, AND THE FARMER COOPERATIVE SERVICE FOR FISCAL YEARS 1977-79.

4/ INCLUDES PROGRAMS OF THE ECONOMIC RESEARCH SERVICE AND THE STATISTICAL REPORTING SERVICE FOR FY 1980.

* INDICATES AMOUNT LESS THAN \$50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-122. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY SELECTED AGENCY: FISCAL YEARS 1974-84

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1974	1975	1976	1977	1978	1979	1980	1981	1982	ESTIMATES	
										1983	1984
TOTAL, ALL AGENCIES	3,787.6	4,141.3	4,851.9	5,255.5	5,908.2	6,342.3	6,923.2	7,171.5	7,540.6	8,068.3	8,047.9
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	219.5	247.8	270.9	319.6	351.8	375.5	381.8	426.9	435.7	459.2	438.1
AGRICULTURAL COOPERATIVE SVC 1/	1.4	1.2	1.2	N/A	N/A	N/A	1.6	1.7	1.7	1.7	1.4
AGRICULTURAL MARKETING SVC 2/	-	-	-	-	-	-	1.0	1.9	1.0	1.3	-
AGRICULTURAL RESEARCH SVC 3/	107.9	112.9	125.9	155.4	161.3	172.7	170.8	181.5	186.2	202.7	194.7
COOPERATIVE STATE RSCH SVC 4/	55.4	62.7	70.3	78.9	91.9	102.1	109.0	115.5	127.7	137.3	126.1
ECON. STAT & COOP SVC 5/	N/A	N/A	N/A	25.9	28.8	29.1	N/A	N/A	N/A	N/A	N/A
ECONOMIC RESEARCH SVC	12.7	18.1	20.4	N/A	N/A	N/A	N/A	35.8	35.3	35.1	40.5
ECONOMICS & STATISTICS SVC 6/	N/A	N/A	N/A	N/A	N/A	N/A	24.5	N/A	N/A	N/A	N/A
FOREST SERVICE	~1.6	52.2	51.9	59.4	69.8	71.1	72.3	81.8	69.0	63.5	59.4
HUMAN NUTRITION INFO SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	8.5	8.2	6.6
NATIONAL AGRICULTURAL LIBRARY	.1	-	-	-	-	-	-	-	-	-	-
OFF OF INTERNAT'L COOP & DEV'T	N/A	N/A	N/A	N/A	N/A	-	2.6	1.9	1.2	4.2	3.6
OFF OF TRANSPORTATION	N/A	N/A	N/A	N/A	N/A	-	-	.3	.3	.3	.3
STATISTICAL REPORTING SVC	.4	.7	1.1	N/A	N/A	N/A	N/A	7.5	4.7	5.3	5.4
DEPARTMENT OF COMMERCE, TOTAL ...	121.5	136.3	144.7	163.8	181.0	207.6	238.5	233.2	259.2	262.2	183.2
NATIONAL BUREAU OF STANDARDS ..	26.5	29.4	31.7	38.0	42.6	43.0	46.1	50.6	57.4	62.9	55.1
NAT'L OCEANIC & ATMOS ADMIN	87.1	99.7	104.9	115.8	127.9	142.7	168.8	168.5	188.5	187.4	118.6
OTHER COMMERCE	7.9	7.2	8.1	10.0	10.4	21.9	23.6	14.0	13.3	11.9	9.5
DEPARTMENT OF DEFENSE, TOTAL	1,131.5	1,130.9	1,200.6	1,342.6	1,413.6	1,542.6	1,721.4	1,996.6	2,266.1	2,391.7	2,703.7
DEPARTMENT OF THE ARMY	290.1	264.7	281.0	299.0	305.7	333.6	347.1	388.4	451.6	458.0	525.5
DEPARTMENT OF THE NAVY	287.1	287.8	308.3	343.6	354.2	375.2	396.2	460.0	498.4	507.9	552.8
DEPARTMENT OF THE AIR FORCE ...	264.1	276.9	298.4	341.0	353.6	387.2	429.1	491.5	488.1	499.0	526.0
DEFENSE AGENCIES	287.3	299.9	312.2	357.8	392.5	446.6	549.1	656.7	828.1	926.8	1,099.4
DEFENSE CIVIL PREPAREDNESS AGENCY	2.7	1.7	.7	1.3	7.5	N/A	N/A	N/A	N/A	N/A	N/A
DEPARTMENT OF EDUCATION, TOTAL ..	N/A	N/A	N/A	N/A	N/A	72.8	70.0	33.2	56.3	63.5	58.4
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	501.8	661.7	668.9	754.2	827.3	1,053.9	1,251.5	1,029.8
DEPT OF HLTH, EDUC. & WELFARE, TOTAL	996.6	1,021.1	1,164.6	1,294.8	1,448.4	N/A	N/A	N/A	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	102.3	73.2	84.1	89.3	98.8	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION ..	4.7	2.2	5.7	15.2	16.3	N/A	N/A	N/A	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH	714.3	775.7	847.4	935.9	1,051.5	N/A	N/A	N/A	N/A	N/A	N/A
OFFICE OF EDUCATION	6.3	5.3	21.4	11.9	13.3	N/A	N/A	N/A	N/A	N/A	N/A
OTHER HHS	169.0	164.8	206.0	242.5	268.4	N/A	N/A	N/A	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	1,439.7	1,570.1	1,591.9	1,467.9	1,584.3	1,625.6
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	N/A	N/A	N/A	118.9	128.8	121.4	128.7	145.1	164.4
NATIONAL INSTITUTES OF HEALTH	N/A	N/A	N/A	N/A	N/A	1,066.4	1,145.1	1,181.5	1,103.8	1,199.4	1,217.7
OTHER HHS	N/A	N/A	N/A	N/A	N/A	254.3	296.2	289.0	228.4	239.9	243.6
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	33.8	33.5	36.9	32.7	30.5	23.8	19.6	16.7	10.3	11.9	10.1
DEPT OF THE INTERIOR, TOTAL	94.8	179.1	205.1	192.4	217.6	266.9	282.8	289.2	275.0	268.7	220.7
BUREAU OF MINES	24.9	51.0	72.5	48.3	48.4	65.4	71.3	54.4	65.2	66.1	35.8
GEOLOGICAL SURVEY	39.0	68.0	70.8	77.2	87.4	96.1	98.5	115.8	99.4	90.3	81.0
OTHER INTERIOR	30.9	50.1	61.8	66.9	81.8	105.5	113.0	119.0	110.4	112.4	103.9
DEPARTMENT OF JUSTICE, TOTAL	16.5	9.4	13.8	12.5	31.0	20.9	19.2	14.9	13.2	19.7	12.0
OFF OF JUSTICE ASSIST. RSCH, & STATISTICS	14.8	8.5	13.2	11.3	28.6	18.0	16.1	12.0	10.3	16.8	9.6
OTHER JUSTICE	1.7	1.0	.6	1.2	2.4	2.9	3.1	2.8	2.9	2.8	2.4
DEPARTMENT OF LABOR, TOTAL	16.0	14.4	17.0	18.0	22.0	39.8	32.6	54.5	10.6	12.0	12.9
DEPARTMENT OF STATE, TOTAL	17.8	21.0	25.1	38.3	49.1	2.6	2.0	1.6	1.5	1.6	1.6
AGENCY FOR INTERNAT'L DEVT	16.8	20.2	24.0	37.2	46.6	N/A	N/A	N/A	N/A	N/A	N/A
OTHER STATE	1.1	.7	1.1	2.1	2.5	2.6	2.0	1.6	1.5	1.6	1.6
DEPT OF TRANSPORTATION, TOTAL ...	61.5	53.8	31.1	51.8	66.5	67.0	82.4	87.4	65.7	77.2	79.6
FEDERAL AVIATION ADMIN	13.9	14.1	3.6	4.7	6.8	7.5	8.2	8.2	7.0	12.5	23.2
FEDERAL HIGHWAY ADMIN	3.3	3.4	1.9	5.3	4.9	4.4	4.6	5.1	5.3	7.1	6.4
FEDERAL RAILROAD ADMIN	1.6	2.7	8.6	6.6	9.2	7.5	7.9	6.2	3.1	5.1	2.9
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	14.9	12.0	9.9	27.5	38.0	30.0	38.6	29.4	21.3	22.8	22.4
URBAN MASS TRANS ADMIN	6.2	2.9	0.6	1.0	1.1	1.1	8.9	9.3	19.4	18.0	13.7
OTHER TRANSPORTATION	21.6	18.6	6.5	6.7	6.5	16.5	14.2	29.2	9.6	11.7	11.1

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TABLE C-122. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY SELECTED AGENCY: FISCAL YEARS 1974-84

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	1974	1975	1976	1977	1978	1979	1980	1981	1982	ESTIMATES	
										1983	1984
DEPT OF THE TREASURY, TOTAL	.5	.4	1.5	2.1	4.1	4.5	4.0	2.9	5.9	7.9	8.0
OTHER AGENCIES											
AGENCY FOR INTERNAT'L DEVTMT	N/A	N/A	N/A	N/A	N/A	66.9	79.7	86.4	127.9	117.3	140.6
ENERGY RSCH & DEVELOPMENT ADMIN ..	195.2	280.7	400.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY ..	86.8	124.3	141.7	197.0	246.7	248.9	231.5	207.8	210.7	153.2	131.2
NAT'L AERONAUTICS & SPACE ADMIN ..	539.8	625.8	929.6	792.3	865.4	938.4	1,050.5	876.0	871.4	956.9	965.4
NATIONAL SCIENCE FOUNDATION	105.0	84.0	72.1	63.4	65.5	66.8	58.4	58.9	57.1	61.7	59.4
NUCLEAR REGULATORY COMMISSION ...	42.3	64.2	88.4	112.3	133.9	148.8	182.7	219.7	220.3	209.5	199.7
VETERANS ADMINISTRATION	75.2	83.3	76.2	83.2	90.5	101.8	103.6	112.7	110.1	131.2	128.2
ALL OTHER AGENCIES	33.2	31.4	31.7	36.9	28.8	38.2	38.2	34.0	28.7	27.2	39.6

1/ INCLUDES PROGRAMS OF THE FARMER COOPERATIVE SERVICE FOR FISCAL YEARS 1967-76.

2/ FY 1979 WAS THE FIRST YEAR IN WHICH CONGRESS APPROPRIATED FUNDS TO AMS.

3/ INCLUDES THE FORMER AGRICULTURE RESEARCH SERVICE OF THE SCIENCE & EDUCATION ADMINISTRATION FOR FISCAL YEARS 1978-80.

4/ INCLUDES THE FORMER COOPERATIVE STATE RESEARCH OF THE SCIENCE & EDUCATION ADMINISTRATION FOR FISCAL YEARS 1978-80.

5/ INCLUDES PROGRAMS OF THE ECONOMIC RESEARCH SERVICE, THE STATISTICAL REPORTING SERVICE, AND THE FARMER COOPERATIVE SERVICE FOR FISCAL YEARS 1977-79.

6/ INCLUDES PROGRAMS OF THE ECONOMIC RESEARCH SERVICE AND THE STATISTICAL REPORTING SERVICE FOR FY 1980.

* INDICATES AMOUNT LESS THAN \$50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-123. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY SELECTED AGENCY: FISCAL YEARS 1974-84

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1974	1975	1976	1977	1978	1979	1980	1981	1982	ESTIMATES	
										1983	1984
TOTAL, ALL AGENCIES	11,234.9	12,309.1	13,160.3	14,936.3	16,238.4	17,610.1	18,233.1	20,891.1	23,410.4	24,555.7	30,833.8
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	13.6	18.1	20.2	22.9	26.8	31.1	30.2	33.0	30.8	30.4	29.5
DEPARTMENT OF COMMERCE, TOTAL ...	51.4	71.0	73.1	68.6	90.9	89.9	88.1	78.6	60.2	58.5	34.6
DEPARTMENT OF DEFENSE, TOTAL	6,986.0	7,581.5	8,127.2	9,247.5	9,729.6	10,492.1	11,719.2	13,907.7	17,669.8	19,963.6	26,163.3
DEPARTMENT OF THE ARMY	1,643.4	1,560.4	1,651.3	2,043.9	2,139.1	2,320.1	2,500.7	2,707.7	3,121.3	3,312.1	4,158.2
DEPARTMENT OF THE NAVY	2,317.2	2,693.7	2,890.1	3,320.0	3,472.1	3,767.7	4,095.0	4,308.0	5,066.4	5,221.8	7,180.3
DEPARTMENT OF THE AIR FORCE ...	2,874.6	3,157.7	3,344.3	3,605.3	3,813.6	4,033.4	4,673.7	6,351.9	8,724.0	10,280.7	13,131.4
DEFENSE AGENCIES	126.6	145.9	217.5	248.0	276.2	341.7	411.9	499.1	717.1	1,085.2	1,637.1
DIRECTOR OF TEST & EVALUATION ..	24.2	23.9	24.1	30.2	28.6	29.3	37.9	41.1	41.0	63.8	56.3
DEPARTMENT OF EDUCATION, TOTAL ..	N/A	N/A	N/A	N/A	N/A	72.9	51.8	51.1	57.5	67.3	55.1
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	2,645.0	3,142.6	3,506.9	3,476.4	3,504.6	3,012.1	2,636.8	2,686.2
DEPT OF HLTH, EDUC. & WELFARE, TOTAL	443.4	472.6	432.8	409.0	466.5	N/A	N/A	N/A	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	489.2	447.4	434.9	335.2	354.0	341.1
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	31.0	28.5	30.6	19.4	39.2	44.1	36.4	31.4	18.5	20.0	17.1
DEPT OF THE INTERIOR, TOTAL	48.9	69.3	73.7	58.7	75.5	66.3	56.8	57.3	29.6	28.4	17.3
DEPARTMENT OF JUSTICE, TOTAL	16.1	25.4	15.5	10.1	15.2	14.1	12.7	7.0	10.4	11.5	9.3
DEPARTMENT OF LABOR, TOTAL	6.6	10.1	10.5	10.8	72.1	94.9	101.6	4.0	8.3	2.1	2.3
DEPARTMENT OF STATE, TOTAL	4.7	5.4	14.2	23.1	36.1	.5	.3	.2	-	-	-
DEPT OF TRANSPORTATION, TOTAL ...	308.0	257.7	263.4	302.8	341.8	302.1	278.8	327.0	243.4	315.9	438.8
DEPT OF THE TREASURY, TOTAL	.7	1.3	2.3	2.7	5.8	4.8	6.3	6.1	5.2	4.9	4.8
OTHER AGENCIES											
AGENCY FOR INTERNAT'L DEVTMT	N/A	N/A	N/A	N/A	N/A	39.6	69.7	47.8	72.0	57.9	65.9
ENERGY RSCH & DEVELOPMENT ADMIN ..	1,024.2	1,453.9	1,717.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY ..	72.9	115.9	103.7	90.2	132.0	151.1	99.9	107.4	91.7	66.9	59.1
NAT'L AERONAUTICS & SPACE ADMIN ..	2,156.5	2,129.3	2,224.0	1,964.7	1,988.1	2,127.2	1,624.4	2,186.0	1,670.7	854.4	815.6
NATIONAL SCIENCE FOUNDATION	36.2	25.0	13.5	8.7	5.3	7.9	8.1	6.1	2.2	-	-
VETERANS ADMINISTRATION	6.1	7.7	12.6	14.7	14.6	15.6	15.5	16.7	14.3	16.3	16.5
ALL OTHER AGENCIES	28.7	36.4	25.5	37.3	56.5	58.7	109.4	84.4	78.6	66.9	77.3

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-124. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY PERFORMER: FISCAL YEARS 1974-84

(MILLIONS OF DOLLARS)

PERFORMER	1974	1975	1976	1977	1978	1979	1980	1981	1982	ESTIMATES	
										1983	1984
TOTAL	17,410.1	19,038.8	20,779.7	23,450.4	25,845.1	28,145.1	29,830.4	33,103.9	36,432.6	38,710.1	45,497.0
FEDERAL INTRAMURAL 1/.....	4,910.9	5,354.0	5,768.7	6,011.7	6,810.4	7,417.5	7,632.3	8,425.7	9,141.0	10,228.3	10,969.9
INDUSTRIAL FIRMS 2/.....	8,345.2	9,126.9	10,154.1	11,829.9	12,642.5	13,490.5	14,377.2	16,281.8	18,698.7	19,254.3	24,571.9
UNIVERSITIES AND COLLEGES	2,214.0	2,411.4	2,551.8	2,905.5	3,374.6	3,888.8	4,263.4	4,465.8	4,605.5	4,996.1	5,270.7
FFRDCS ADMINISTERED BY											
UNIVERSITIES	789.1	935.1	1,061.1	1,313.1	1,311.9	1,488.3	1,533.3	1,791.0	1,976.7	2,088.9	2,291.9
OTHER NONPROFIT INSTITUTIONS 2/..	871.5	922.3	939.6	1,063.9	1,314.1	1,395.2	1,547.4	1,594.0	1,612.2	1,744.8	2,018.7
ALL OTHER PERFORMERS	279.4	289.2	304.3	326.2	391.6	464.8	476.7	545.6	398.5	397.7	373.9

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE.

2/ INCLUDES FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS (FFRDCS) ADMINISTERED BY THIS SECTOR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-125. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY PERFORMER: FISCAL YEARS 1974-84

(MILLIONS OF DOLLARS)

PERFORMER	1974	1975	1976	1977	1978	1979	1980	1981	1982	ESTIMATES	
										1983	1984
TOTAL	6,175.2	6,729.7	7,619.3	8,514.1	9,606.8	10,535.0	11,597.4	12,212.8	13,022.2	14,154.3	14,663.2
FEDERAL INTRAMURAL 1/.....	2,270.2	2,463.8	2,879.2	2,957.7	3,220.8	3,481.2	3,666.3	4,034.2	4,194.2	4,577.0	4,636.6
INDUSTRIAL FIRMS 2/.....	972.8	1,145.9	1,279.5	1,559.4	1,886.6	2,006.9	2,388.6	2,309.7	2,643.9	2,855.1	2,928.6
UNIVERSITIES AND COLLEGES	1,958.3	2,078.8	2,249.7	2,583.5	2,928.0	3,333.4	3,699.1	3,920.1	4,045.4	4,407.5	4,667.0
FFRDCS ADMINISTERED BY											
UNIVERSITIES	374.0	425.5	548.3	670.3	714.9	800.6	851.2	940.6	1,056.7	1,165.3	1,286.8
OTHER NONPROFIT INSTITUTIONS 2/..	464.9	459.5	492.9	567.7	657.8	696.0	750.2	772.9	847.7	888.2	882.0
ALL OTHER PERFORMERS	135.1	156.2	169.8	175.5	198.8	216.9	242.1	235.3	234.2	261.3	262.2

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE.

2/ INCLUDES FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS (FFRDCS) ADMINISTERED BY THIS SECTOR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-126. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY PERFORMER: FISCAL YEARS 1974-84

(MILLIONS OF DOLLARS)

PERFORMER	1974	1975	1976	1977	1978	1979	1980	1981	1982	ESTIMATES	
										1983	1984
TOTAL	2,387.7	2,588.4	2,767.5	3,258.6	3,698.6	4,192.7	4,674.2	5,041.3	5,481.6	6,086.0	6,615.4
FEDERAL INTRAMURAL 1/.....	695.9	733.5	786.0	914.1	1,029.3	1,089.1	1,182.5	1,301.8	1,465.5	1,650.4	1,774.3
INDUSTRIAL FIRMS 2/.....	155.5	166.4	190.9	261.2	313.1	343.7	395.6	366.2	358.3	390.6	429.0
UNIVERSITIES AND COLLEGES	1,144.7	1,260.6	1,341.7	1,555.1	1,759.2	2,079.9	2,320.3	2,503.2	2,727.1	3,018.3	3,295.0
FFRDCS ADMINISTERED BY											
UNIVERSITIES	223.1	257.5	284.9	324.1	356.8	393.6	436.8	490.6	516.7	578.7	663.4
OTHER NONPROFIT INSTITUTIONS 2/..	133.3	142.1	134.4	168.2	198.5	247.0	287.0	321.8	364.6	381.3	392.3
ALL OTHER PERFORMERS	35.2	28.3	29.5	36.0	41.7	39.3	52.0	57.7	49.4	66.8	61.4

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE.

2/ INCLUDES FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS (FFRDCS) ADMINISTERED BY THIS SECTOR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-127. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY PERFORMER: FISCAL YEARS 1974-84

(MILLIONS OF DOLLARS)

PERFORMER	1974	1975	1976	1977	1978	1979	1980	1981	1982	ESTIMATES	
										1983	1984
TOTAL	3,787.6	4,141.3	4,851.9	5,255.5	5,908.2	6,342.3	6,923.2	7,171.5	7,540.6	8,068.3	8,047.9
FEDERAL INTRAMURAL 1/.....	1,574.3	1,730.3	2,093.1	2,043.6	2,191.5	2,392.1	2,483.8	2,732.4	2,728.7	2,926.6	2,862.3
INDUSTRIAL FIRMS 2/.....	817.3	979.6	1,088.6	1,293.2	1,573.4	1,663.2	1,993.0	1,943.5	2,285.6	2,464.5	2,499.6
UNIVERSITIES AND COLLEGES	813.5	818.2	908.0	1,028.4	1,168.8	1,253.5	1,378.8	1,416.9	1,318.3	1,389.3	1,372.1
FFRDCS ADMINISTERED BY											
UNIVERSITIES	150.9	168.0	263.4	346.2	358.1	407.0	414.3	450.0	540.0	586.6	623.4
OTHER NONPROFIT INSTITUTIONS 2/..	331.6	317.4	358.5	399.5	459.2	449.0	463.2	451.1	483.1	506.9	489.7
ALL OTHER PERFORMERS	99.9	127.9	140.2	139.5	157.1	177.6	190.1	177.6	184.9	194.5	200.8

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE.

2/ INCLUDES FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS (FFRDCS) ADMINISTERED BY THIS SECTOR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-128. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY PERFORMER: FISCAL YEARS 1974-84

(MILLIONS OF DOLLARS)

PERFORMER	1974	1975	1976	1977	1978	1979	1980	1981	1982	ESTIMATES	
										1983	1984
TOTAL	11,234.9	12,309.1	13,160.3	14,936.3	16,238.4	17,610.1	18,233.1	20,991.1	23,410.4	24,555.7	30,833.8
FEDERAL INTRAMURAL 1/.....	2,640.7	2,890.2	2,889.6	3,054.0	3,589.7	3,936.3	3,966.1	4,391.5	4,946.8	5,651.3	6,333.4
INDUSTRIAL FIRMS 2/.....	7,372.3	7,980.9	8,874.7	10,270.5	10,755.9	11,483.6	11,988.6	13,972.1	16,054.7	16,399.3	21,643.3
UNIVERSITIES AND COLLEGES	255.7	332.7	302.1	322.0	446.6	555.5	564.4	545.6	560.0	588.6	603.7
FFRDCS ADMINISTERED BY											
UNIVERSITIES	415.2	509.6	512.8	642.8	597.1	687.7	682.2	850.4	920.0	923.6	1,005.0
OTHER NONPROFIT INSTITUTIONS 2/..	406.6	462.8	446.7	496.2	656.3	699.2	797.2	821.1	764.5	856.6	1,136.7
ALL OTHER PERFORMERS	144.4	133.0	134.5	150.7	192.8	247.9	234.7	310.4	164.3	136.4	111.7

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE.

2/ INCLUDES FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS (FFRDCS) ADMINISTERED BY THIS SECTOR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-129. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY FIELD OF SCIENCE: FISCAL YEARS 1974-84

(MILLIONS OF DOLLARS)

FIELD OF SCIENCE	1974	1975	1976	1977	1978	1979	1980	1981	1982	ESTIMATES	
										1983	1984
TOTAL, ALL FIELDS	6,175.2	6,729.7	7,619.3	8,514.1	9,606.8	10,535.0	11,597.4	12,212.8	13,022.2	14,154.3	14,663.2
LIFE SCIENCES	2,265.1	2,455.2	2,649.7	3,007.7	3,427.1	3,848.3	4,192.3	4,435.6	4,745.5	5,133.0	5,251.0
PSYCHOLOGY	133.4	139.2	144.0	156.2	193.2	197.4	199.0	208.9	218.4	241.4	271.7
PHYSICAL SCIENCES	1,016.1	1,096.6	1,258.9	1,530.2	1,645.6	1,792.6	2,000.6	2,220.5	2,500.4	2,851.7	3,178.8
ENVIRONMENTAL SCIENCES	636.3	727.3	769.3	906.0	1,024.6	1,101.0	1,261.0	1,121.1	1,148.3	1,218.6	1,188.6
MATHEMATICS & COMPUTER SCIENCES	114.3	125.3	157.8	195.9	216.3	210.3	240.9	278.9	350.1	399.4	481.6
ENGINEERING	1,563.7	1,717.8	2,068.7	2,112.9	2,404.6	2,571.6	2,830.1	3,071.5	3,386.5	3,501.5	3,486.9
SOCIAL SCIENCES	292.2	301.8	392.5	426.1	489.5	527.3	523.8	497.4	385.9	425.5	432.3
OTHER SCIENCES, NEC	154.1	166.6	178.6	179.1	205.8	286.6	349.6	378.8	287.0	383.1	372.3

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-130. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY FIELD OF SCIENCE: FISCAL YEARS 1974-84

(MILLIONS OF DOLLARS)

FIELD OF SCIENCE	1974	1975	1976	1977	1978	1979	1980	1981	1982	ESTIMATES	
										1983	1984
TOTAL, ALL FIELDS	2,387.7	2,588.4	2,767.5	3,258.6	3,698.6	4,192.7	4,674.2	5,041.3	5,481.6	6,086.0	6,615.4
LIFE SCIENCES	1,032.2	1,115.9	1,222.0	1,383.4	1,588.4	1,891.8	2,054.4	2,223.8	2,526.0	2,796.3	2,926.6
PSYCHOLOGY	46.1	58.6	45.5	55.7	84.0	75.1	84.2	91.0	89.9	99.0	105.2
PHYSICAL SCIENCES	649.6	709.0	721.4	890.0	941.4	1,050.0	1,220.6	1,324.9	1,393.8	1,556.8	1,731.5
ENVIRONMENTAL SCIENCES	291.6	280.8	294.3	387.5	451.3	457.3	522.4	532.8	520.0	560.3	605.9
MATHEMATICS & COMPUTER SCIENCES	52.7	62.0	81.8	83.4	97.7	104.2	116.3	140.4	165.1	195.8	240.0
ENGINEERING	214.9	262.8	272.8	337.7	376.0	434.7	465.2	526.0	610.5	665.5	786.0
SOCIAL SCIENCES	74.8	73.8	86.4	95.5	124.3	129.7	147.2	137.0	120.2	125.2	136.4
OTHER SCIENCES, NEC	25.7	25.5	43.1	25.5	35.4	50.0	63.9	65.4	56.1	87.2	83.8

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-131. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY FIELD OF SCIENCE: FISCAL YEARS 1974-84

(MILLIONS OF DOLLARS)

FIELD OF SCIENCE	1974	1975	1976	1977	1978	1979	1980	1981	1982	ESTIMATES	
										1983	1984
TOTAL, ALL FIELDS	3,787.6	4,141.3	4,851.9	5,255.5	5,906.2	6,342.3	6,923.2	7,171.5	7,540.6	8,068.3	8,047.9
LIFE SCIENCES	1,233.0	1,339.3	1,427.7	1,624.4	1,838.7	1,956.5	2,137.9	2,211.8	2,219.5	2,336.7	2,324.4
PSYCHOLOGY	87.3	80.6	98.5	100.5	109.2	122.3	114.8	117.9	128.5	142.4	166.5
PHYSICAL SCIENCES	366.5	387.7	537.5	640.2	704.2	742.6	780.0	895.6	1,106.5	1,295.0	1,447.4
ENVIRONMENTAL SCIENCES	344.7	446.5	475.0	518.5	573.3	643.7	738.6	588.2	628.3	658.3	582.7
MATHEMATICS & COMPUTER SCIENCES	61.5	63.3	76.0	112.5	118.5	106.1	124.7	138.6	185.0	203.6	241.6
ENGINEERING	1,348.9	1,454.9	1,795.9	1,775.2	2,028.6	2,137.0	2,364.9	2,545.4	2,776.1	2,836.0	2,700.9
SOCIAL SCIENCES	217.4	228.1	306.0	330.6	365.1	397.6	376.6	360.5	265.7	300.3	295.9
OTHER SCIENCES, NEC	128.4	141.0	135.4	153.6	170.4	236.6	285.7	313.5	231.0	296.0	288.5

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-132. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION AND STATE:
FISCAL YEARS 1971-82

(MILLIONS OF DOLLARS)

DIVISION AND STATE	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
TOTAL	15,239.8	16,261.8	16,486.1	16,990.7	18,542.3	20,247.4	22,841.1	25,077.7	27,084.2	28,627.3	31,929.6	35,361.6
NEW ENGLAND	1,145.0	1,259.8	1,264.4	1,561.8	1,650.5	1,716.2	1,961.3	2,227.1	2,658.6	2,780.7	3,172.5	3,567.3
CONNECTICUT	149.9	169.2	193.9	233.7	269.7	239.4	291.8	299.8	328.4	470.3	485.0	439.6
MAINE	13.6	16.3	9.6	10.5	11.9	15.6	18.3	25.4	23.1	25.9	24.4	23.9
MASSACHUSETTS	883.2	961.2	953.4	1,188.3	1,228.6	1,284.9	1,472.0	1,689.3	2,055.6	2,047.7	2,407.1	2,775.2
NEW HAMPSHIRE	34.0	21.5	30.6	29.3	33.6	34.7	32.6	68.7	94.1	50.2	54.8	50.8
RHODE ISLAND	50.5	68.9	59.3	74.9	75.1	101.8	110.1	120.3	140.7	149.9	182.5	242.1
VERMONT	13.7	22.8	17.5	25.1	31.6	39.7	36.6	23.7	16.7	36.6	18.7	35.7
MIDDLE ATLANTIC	2,413.5	2,481.0	2,206.7	2,160.2	2,281.3	2,439.1	2,607.7	2,802.2	3,111.4	3,257.6	3,416.0	3,711.9
NEW JERSEY	745.1	763.1	645.2	473.8	442.0	495.7	566.3	522.5	649.3	729.4	775.4	887.9
NEW YORK	1,119.5	1,075.6	932.6	1,026.3	1,058.6	1,107.4	1,203.8	1,284.1	1,362.2	1,468.8	1,557.7	1,692.5
PENNSYLVANIA	548.9	642.3	628.8	660.1	780.7	836.0	837.5	995.7	1,099.9	1,059.4	1,082.9	1,131.5
EAST NORTH CENTRAL	1,121.7	1,179.6	1,082.8	1,263.8	1,377.3	1,439.5	1,726.3	2,010.4	2,097.8	2,316.2	2,349.3	2,260.1
ILLINOIS	249.1	251.0	287.6	325.4	371.3	414.3	517.2	564.3	547.2	599.9	572.6	543.0
INDIANA	74.6	100.5	82.9	95.0	92.8	92.4	102.8	108.1	122.0	162.4	170.1	186.2
MICHIGAN	787.3	186.3	153.8	196.6	248.9	222.2	316.6	367.8	264.4	377.5	357.2	376.7
OHIO	518.1	521.7	478.8	567.3	585.2	627.8	694.8	858.3	1,053.2	1,054.7	1,117.2	1,024.8
WISCONSIN	92.6	80.1	79.6	79.6	79.2	82.8	94.8	111.9	111.0	121.7	132.2	129.4
WEST NORTH CENTRAL	786.0	906.0	830.8	607.4	574.0	681.6	974.8	1,250.7	1,277.8	1,618.5	1,829.6	2,151.3
IOWA	32.9	37.9	38.5	46.5	47.8	48.5	60.1	68.3	84.9	121.7	147.4	136.3
KANSAS	24.3	31.3	30.4	29.4	32.8	32.1	36.3	106.6	136.3	353.6	471.0	637.7
MINNESOTA	102.8	127.0	120.2	106.9	123.2	153.3	186.5	177.7	202.8	261.6	309.0	378.6
MISSOURI	596.9	679.5	608.1	387.0	330.0	404.3	639.6	827.3	778.9	801.6	820.4	911.3
NEBRASKA	10.4	11.7	13.4	14.7	20.3	21.4	24.5	33.5	31.3	31.6	31.7	32.0
NORTH DAKOTA	9.1	10.5	9.5	10.5	13.0	14.8	19.3	28.3	33.4	38.7	40.1	36.5
SOUTH DAKOTA	9.6	8.1	10.7	12.4	6.8	7.3	8.5	9.1	10.2	9.9	10.2	19.0
SOUTH ATLANTIC	3,228.3	3,560.6	3,706.0	3,752.8	3,993.2	4,228.7	4,771.2	5,179.2	5,567.6	6,109.8	6,674.3	7,563.6
DELAWARE	13.0	17.4	40.8	10.4	10.0	8.0	15.3	11.1	14.4	20.8	25.9	34.6
DISTRICT OF COLUMBIA	481.9	462.1	490.0	552.3	580.3	570.3	728.1	790.2	768.4	807.0	921.0	954.6
FLORIDA	890.4	1,022.5	952.0	783.2	796.8	788.3	872.5	890.1	913.1	1,120.8	1,373.7	1,776.4
GEORGIA	78.8	71.9	66.8	70.9	81.0	92.3	111.2	155.7	184.4	169.8	195.0	217.3
MARYLAND	1,201.2	1,318.1	1,434.8	1,528.9	1,610.3	1,811.2	1,991.4	2,091.0	2,299.8	2,465.0	2,585.1	2,850.2
NORTH CAROLINA	82.7	83.3	101.7	110.0	116.9	139.1	154.7	192.3	220.9	227.7	259.8	272.7
SOUTH CAROLINA	23.4	26.3	23.7	28.8	24.6	30.8	67.2	118.3	114.3	87.5	96.1	98.7
VIRGINIA	424.9	529.6	567.9	642.3	726.8	751.5	780.2	857.1	945.1	1,059.3	1,066.4	1,268.1
WEST VIRGINIA	32.1	29.4	28.2	25.9	46.5	37.2	50.6	73.3	107.2	152.0	151.2	91.0
EAST SOUTH CENTRAL	618.3	638.9	681.5	726.7	745.6	885.2	1,112.9	1,225.5	1,304.6	1,395.8	1,603.7	1,486.7
ALABAMA	360.0	359.0	376.5	377.4	363.1	374.4	414.7	432.0	516.9	455.7	493.5	561.5
KENTUCKY	23.1	32.1	38.1	31.3	35.2	51.0	56.6	62.1	43.0	107.9	101.0	97.2
MISSISSIPPI	46.7	60.7	57.5	76.3	57.9	71.6	95.4	87.1	100.7	109.3	125.5	125.7
TENNESSEE	188.5	187.1	209.5	241.7	289.4	388.2	546.3	644.3	644.1	722.9	883.6	702.3
WEST SOUTH CENTRAL	733.1	798.9	794.0	772.1	874.2	1,021.9	1,048.5	1,313.9	1,316.6	1,229.3	1,477.1	1,400.1
ARKANSAS	20.8	13.2	16.6	14.2	23.3	26.5	24.3	42.4	37.3	30.0	31.2	43.5
LOUISIANA	90.1	103.6	91.6	75.7	101.8	126.1	156.5	162.7	209.1	196.3	331.8	236.8
OKLAHOMA	26.3	29.1	34.8	29.9	34.5	32.1	48.2	105.0	70.1	94.5	82.4	65.6
TEXAS	595.9	653.0	651.0	652.2	714.5	837.2	819.4	1,003.8	1,000.1	908.6	1,031.7	1,054.3
MOUNTAIN	1,127.4	1,214.4	1,290.6	1,213.0	1,281.0	1,400.4	1,727.3	2,077.9	2,262.7	2,568.2	3,016.4	3,002.8
ARIZONA	88.7	89.9	94.8	99.5	116.3	122.5	142.5	163.4	201.4	334.6	367.7	264.5
COLORADO	244.2	369.1	410.8	323.3	267.9	248.6	324.2	393.2	442.2	573.7	632.8	556.6
IDAHO	75.3	75.9	81.8	52.2	67.2	72.7	119.8	107.0	147.1	147.7	119.5	127.0
MONTANA	17.6	19.0	19.9	13.6	28.4	29.8	47.8	27.5	41.6	45.7	45.4	42.7
NEVADA	159.0	140.3	143.1	112.5	150.0	179.7	184.3	196.7	222.1	214.5	263.0	376.3
NEW MEXICO	458.7	451.5	462.8	532.0	554.8	626.3	751.4	987.4	955.5	954.2	1,224.1	1,322.6
UTAH	55.8	58.9	66.7	68.7	80.1	101.5	133.2	161.8	211.6	243.9	305.7	287.9
WYOMING	8.1	9.9	10.7	11.0	16.3	19.4	24.2	40.8	41.0	53.9	58.2	25.4
PACIFIC	4,004.9	4,158.2	4,562.2	4,864.3	5,692.5	6,369.4	6,824.7	6,906.2	7,390.2	7,232.4	8,304.6	10,118.0
ALASKA	58.2	46.0	41.8	25.3	36.4	37.6	38.1	48.7	45.9	42.5	51.8	40.0
CALIFORNIA	3,295.4	3,473.1	3,840.2	4,075.7	4,839.6	5,496.1	5,785.5	5,839.2	6,338.6	6,097.7	7,049.7	8,888.3
HAWAII	38.3	47.4	47.9	53.1	43.0	45.5	36.9	44.6	40.8	42.6	49.9	44.5
OREGON	41.9	53.7	64.3	59.9	79.0	84.6	84.9	95.3	100.1	97.9	105.6	106.3
WASHINGTON	571.2	537.9	567.9	650.4	694.6	705.6	879.1	878.3	864.7	951.8	1,047.5	1,038.9
OUTLYING AREAS	18.6	18.4	19.7	19.6	28.8	22.4	47.8	38.7	39.4	45.3	38.9	40.7
OFFICES ABROAD	42.9	46.1	47.4	49.1	43.9	43.0	38.6	45.9	57.7	73.5	47.2	59.0

NOTE: (1) FOR EACH YEAR, THE DATA SHOWN INCLUDE THE OBLIGATIONS OF THE 10 OR 11 MAJOR R&D-SUPPORT AGENCIES IN THAT YEAR, AND REPRESENT 97 PERCENT OR MORE OF THE TOTAL FEDERAL R&D OBLIGATIONS IN THAT YEAR.

NOTE: (2) ALTHOUGH THE NON-GEOGRAPHIC HISTORICAL TABLES INCORPORATE CORRECTIONS TO PREVIOUSLY REPORTED DATA THAT HAVE BEEN SUBMITTED BY THE REPORTING AGENCIES, CORRESPONDING CORRECTIONS TO THE GEOGRAPHIC DISTRIBUTIONS ARE RARELY OBTAINABLE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-133. FEDERAL OBLIGATIONS FOR R&D PLANT, BY GEOGRAPHIC DIVISION AND STATE:
FISCAL YEARS 1971-82

(MILLIONS OF DOLLARS)

DIVISION AND STATE	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
TOTAL	586.0	595.6	757.5	749.8	801.0	799.2	1,334.0	1,262.0	1,393.8	1,533.1	1,454.4	1,380.1
NEW ENGLAND	15.7	24.5	15.5	17.7	22.7	22.4	36.1	34.9	58.2	24.1	54.2	50.6
CONNECTICUT	1.5	2.7	2.4	5.2	3.8	1.9	3.9	2.3	12.3	1.0	9.2	25.1
MAINE	..	.4	..	.2	..	..	.1	.1	.1	..	..	..
MASSACHUSETTS	9.7	16.1	8.4	9.5	11.0	14.0	24.4	28.7	36.9	20.4	35.7	23.3
NEW HAMPSHIRE	2.0	1.5	..	1.1	2.9	2.0	2.4	1.3	5.4	..	7.7	.1
RHODE ISLAND	2.1	2.8	4.2	.7	4.9	4.5	5.3	2.4	3.5	2.6	1.6	2.1
VERMONT	.4	1.1	.1	1.0	..	..	..	..	..	..	..	..
MIDDLE ATLANTIC	55.7	74.1	99.7	101.4	76.8	70.6	133.9	189.3	180.7	187.4	236.1	173.1
NEW JERSEY	5.0	14.9	5.3	2.5	11.5	22.1	64.8	96.7	64.8	60.5	55.7	57.0
NEW YORK	33.9	21.9	81.8	77.1	46.4	37.5	61.0	63.8	69.4	91.4	85.1	65.0
PENNSYLVANIA	16.8	37.3	12.6	21.8	18.9	11.0	8.1	28.8	46.5	35.5	95.2	51.1
EAST NORTH CENTRAL	100.1	85.5	129.7	69.7	48.3	66.5	114.6	108.7	96.4	123.3	152.6	107.4
ILLINOIS	85.2	68.1	84.3	42.9	29.6	45.2	52.0	72.9	61.9	71.5	74.1	74.3
INDIANA	.8	.5	.3	.1	.1	.8	.6	.4	.7	.7	.9	.6
MICHIGAN	.9	2.9	4.8	.2	.6	2.0	1.1	1.9	3.0	8.3	9.5	7.8
OHIO	10.1	13.0	39.1	19.6	15.1	13.6	60.4	23.9	28.0	40.3	65.2	23.7
WISCONSIN	3.1	1.0	1.1	6.9	2.9	4.9	.5	9.6	2.9	2.5	3.0	1.0
WEST NORTH CENTRAL	10.8	8.1	4.7	26.9	5.8	3.6	3.6	7.6	12.4	53.5	7.1	11.2
IOWA	1.5	.8	1.1	.5	.7	1.1	1.5	2.3	2.2	2.9	2.1	2.2
KANSAS	.2	.1	.2	.1	..	.1	.1	.2	..	.1	.1	.1
MINNESOTA	4.1	1.3	.5	23.4	.1	.5	.4	1.2	..	.3	.5	.4
MISSOURI	2.2	.7	.3	.8	4.1	.5	.9	1.2	5.6	40.9	1.8	5.7
NEBRASKA	1.2	1.6	1.0	1.5	.4	1.0	.2	.3	.8	2.1	.6	.7
NORTH DAKOTA	.1	.5	.1	.2	.4	.5	.6	2.3	1.4	4.1	1.4	1.2
SOUTH DAKOTA	1.5	3.1	1.5	.4	..	..	..	.1	1.6	3.1	.7	.9
SOUTH ATLANTIC	77.0	114.1	142.9	140.5	173.7	166.9	358.5	233.4	202.0	181.2	170.3	237.9
DELAWARE	..	..	..	.1	.1	..	..	..	..	.7	1.6	.1
DISTRICT OF COLUMBIA	5.1	9.0	31.5	1.1	7.9	21.4	11.3	11.1	22.0	14.3	31.7	33.6
FLORIDA	30.8	47.7	40.1	51.7	96.0	76.3	155.2	81.1	46.0	46.7	25.5	31.8
GEORGIA	2.3	1.8	.7	.1	.5	.2	1.2	1.8	1.0	.6	1.6	1.5
MARYLAND	29.7	36.1	51.4	60.8	40.1	36.7	80.4	82.7	64.3	53.3	52.3	82.2
NORTH CAROLINA	.4	6.0	4.8	4.1	.3	.6	66.8	3.5	3.9	8.2	1.2	1.4
SOUTH CAROLINA	1.3	1.2	3.4	7.7	3.8	3.3	2.2	6.9	9.7	3.1	18.8	65.2
VIRGINIA	7.0	11.3	7.0	14.0	23.1	11.6	24.7	29.3	42.0	41.5	33.9	21.1
WEST VIRGINIA	.4	.9	4.2	.8	1.9	16.7	16.7	17.0	13.1	12.9	3.7	1.1
EAST SOUTH CENTRAL	18.3	27.7	55.4	54.7	52.5	76.9	54.7	55.9	65.1	134.7	109.6	78.4
ALABAMA	3.9	6.7	5.1	5.6	8.4	12.3	5.3	6.5	2.6	47.9	16.5	5.8
KENTUCKY	.3	.1	..	.2	..	..	..	..	2.9	..	4.3	1.4
MISSISSIPPI	.4	.4	13.0	15.2	4.8	4.1	11.5	6.0	3.8	6.6	3.4	5.9
TENNESSEE	13.7	20.5	37.4	33.6	39.3	60.5	37.8	43.4	55.8	80.1	85.5	65.2
WEST SOUTH CENTRAL	11.7	11.2	11.9	8.2	8.9	11.1	17.2	34.6	27.3	30.8	31.3	34.7
ARKANSAS	..	.1	.2	.4	.7	.9	2.8	.9	.2	.7	.7	1.0
LOUISIANA	5.1	.5	.4	1.6	.3	2.3	3.6	20.9	16.7	12.6	14.1	22.2
OKLAHOMA	.1	.2	.1	.1	.3	.2	.4	1.0	.6	3.2	2.7	1.2
TEXAS	6.5	10.4	11.1	6.1	7.6	7.8	10.4	11.8	9.7	14.2	13.9	10.2
MOUNTAIN	102.4	84.1	95.5	86.2	104.9	123.8	195.6	210.2	254.9	284.3	244.9	269.4
ARIZONA	1.3	2.3	.5	3.6	1.3	2.7	1.6	33.9	35.3	1.8	.4	.4
COLORADO	8.2	16.2	21.9	7.9	4.9	12.0	12.7	11.6	9.7	35.6	26.9	16.6
IDAH0	20.3	5.4	6.3	11.0	16.2	19.7	26.1	35.6	41.8	45.1	11.9	21.4
MONTANA	.5	.1	.1	.1	.3	.1	.8	..	1.2	3.7	.1	.1
NEVADA	16.9	17.5	14.4	9.2	11.7	11.7	14.8	18.5	24.2	22.4	82.9	30.0
NEW MEXICO	54.1	41.6	51.6	50.3	68.1	76.6	137.9	101.7	138.6	169.5	119.3	196.6
UTAH	.6	1.0	.5	4.1	2.1	.8	1.5	8.0	2.9	1.9	1.5	3.1
WYOMING	.4	..	.2	..	.3	.2	.3	.9	1.2	4.3	2.0	1.2
PACIFIC	178.3	156.3	176.7	243.8	305.9	256.1	417.8	381.9	489.2	509.8	446.2	415.5
ALASKA	1.4	.7	.5	.1	.9	.8	.6	.7	.8	.1	..	..
CALIFORNIA	119.8	123.4	128.0	141.1	151.1	147.3	303.3	259.5	400.2	377.4	355.4	334.6
HAWAII	2.2	.9	.4	.4	6.2	2.8	.5	.7	.5	.2	.7	.1
OREGON	1.2	1.2	.1	.1	1.2	2.0	..	2.6	.9	3.9	1.0	.1
WASHINGTON	53.7	30.2	47.8	102.1	146.5	103.1	113.4	118.3	86.8	128.2	89.0	80.8
OUTLYING AREAS	5.2	1.8	1.4	.6	.5	.3	.1	1.7	.5	2.9	.7	.5
OFFICES ABROAD	10.8	8.2	24.1	.2	1.1	1.0	1.9	3.9	7.1	1.1	1.3	1.4

* INDICATES AMOUNT LESS THAN \$50,000.

NOTE: (1) FOR EACH YEAR, THE DATA SHOWN INCLUDE THE OBLIGATIONS OF THE 10 OR 11 MAJOR R&D-PLANT-SUPPORT AGENCIES IN THAT YEAR, AND REPRESENT 97 PERCENT OR MORE OF THE TOTAL FEDERAL R&D PLANT OBLIGATIONS IN THAT YEAR.

NOTE: (2) ALTHOUGH THE NON-GEOGRAPHIC HISTORICAL TABLES INCORPORATE CORRECTIONS TO PREVIOUSLY REPORTED DATA THAT HAVE BEEN SUBMITTED BY THE REPORTING AGENCIES, CORRESPONDING CORRECTIONS TO THE GEOGRAPHIC DISTRIBUTIONS ARE RARELY OBTAINABLE.

SOURCE: NATIONAL SCIENCE FOUNDATION

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